CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close		See Eng. News-Record

WATERWORKS

Dec. 4	Victoria, Tex.	Nov. 23
Dec. 5	Ponca City, Okla. Adv. Nov. 30.	Nov. 23
Dec. 5	Detroit, Mich.	Nov. 30
Dec. 5	Long Island City, N. Y.	Nov. 30
Dec. 5	Merced, Calif.	Nov. 30
Dec. 11	Monroe, Mich. Adv. Nov. 23 and 30.	Nov. 23
Dec. 11	Monroe, Mich. Adv. Nov. 30.	Nov. 30
Dec. 12	Wheeling, W. Va. Adv. Nov. 16 to 30.	Nov. 16
Dec. 19	Houma, La.	Nov. 23
Dec. 19	Brooklyn, N. Y. Adv. Nov. 30.	Nov. 30
Feb. 1	Spokane, Wash.	Nov. 16

SEWERS

Dec. 6	Hamilton, Ont.	Nov. 30
Dec. 7	Athol, Mass.	Nov. 16
Dec. 8	New York, N. Y.	Nov. 30
Dec. 11	New Orleans, La. Adv. Oct. 12 to Nov. 30.	Oct. 12
Dec. 15	Harlinger, Tex.	Nov. 30

WASTE DISPOSAL

Dec. 18	Allentown, Pa. Adv. Nov. 23 and 30.	Nov. 23
Dec. 29	Portland, Ore. Adv. Nov. 30.	Nov. 30

BRIDGES

Dec. 5	Cape May, N. J. Adv. Nov. 16 to 30.	Nov. 16
Dec. 5	Alabama	Nov. 16
Dec. 5	Jefferson, Tex.	Nov. 23
Dec. 5	Dubuque, Ia.	Nov. 30
Dec. 6	Freehold, N. J. Adv. Nov. 16 to 30.	Nov. 16
Dec. 8	Seattle, Wash.	Nov. 16
Dec. 9	Missouri	Nov. 30
Dec. 11	Yankton, S. D. Adv. Nov. 30.	Nov. 30
Dec. 11	Spokane, Wash.	Nov. 30
Dec. 12	Brunswick, Ga.	Nov. 9
Dec. 12	Alabama	Nov. 16
Dec. 12	Mt. Ayr, Ia.	Nov. 30
Dec. 12	Nashville, N. C.	Nov. 30
Dec. 14	Hamburg, N. Y. Adv. Nov. 30.	Nov. 30
Dec. 16	Missouri	Nov. 30
Dec. 19	West Virginia	Nov. 30
Jan. 23	Spokane, Wash.	Sept. 21
Sept. 1,	1923, Sydney, New South Wales, Australia	Aug. 3

DAMS

Jan. 5	Bluefield, W. Va. Adv. Nov. 30.	Nov. 30

RAILWAYS

Dec. 4	Ontario	Nov. 23

EXCAVATION, DRAINAGE, IRRIGATION

Dec. 5	Merced, Calif.	Nov. 30

STREETS AND ROADS

Dec. 4	Earlington, Ky. Adv. Nov. 23 and 30.	Nov. 23
Dec. 4	Chatham, Va.	Nov. 23
Dec. 4	San Diego, Calif.	Nov. 23
Dec. 4	Homestead, Fla.	Nov. 30
Dec. 4	Dade City, Fla.	Nov. 30
Dec. 4	Colorado	Nov. 30
Dec. 4	Dallas, Tex.	Nov. 30
Dec. 5	Albert Lea, Minn.	Nov. 9
Dec. 5	Alabama	Nov. 16
Dec. 5	Stockton, Calif.	Nov. 23
Dec. 5	Ridgeland, S. C.	Nov. 23
Dec. 5	Canton, S. D.	Nov. 23
Dec. 5	Jefferson, Tex.	Nov. 23
Dec. 5	Michigan	Nov. 23
Dec. 5	Elkins, W. Va.	Nov. 30
Dec. 5	Michigan	Nov. 30
Dec. 5	Dubuque, Ia.	Nov. 30
Dec. 6	Camden, S. C.	Nov. 23
Dec. 6	San Francisco, Calif.	Nov. 30
Dec. 6	North Carolina	Nov. 30
Dec. 6	Maplewood, Mo.	Nov. 30
Dec. 6	Clayton, Mo.	Nov. 30
Dec. 7	Aiken, S. C.	Nov. 23
Dec. 7	Michigan	Nov. 23
Dec. 7	Lisbon, Ia.	Nov. 30
Dec. 7	Beaumont, Tex.	Nov. 30
Dec. 8	Pecos, Tex.	Nov. 23
Dec. 8	Duluth, Minn.	Nov. 30
Dec. 8	Missouri	Nov. 30
Dec. 8	St. George, N. Y.	Nov. 30
Dec. 11	California	Nov. 23
Dec. 12	Alabama	Nov. 16
Dec. 12	St. Louis, Mo.	Nov. 23
Dec. 12	Mt. Ayr, Ia.	Nov. 30
Dec. 13	Corsicana, Tex.	Nov. 30
Dec. 14	Virginia Adv. Nov. 30.	Nov. 30
Dec. 14	North Carolina Adv. Nov. 30.	Nov. 30
Dec. 15	Columbus, Kan.	Nov. 30
Dec. 15	Tennessee	Nov. 30
Dec. 16	Mound City, Kan.	Nov. 23
Dec. 16	Quebec	Nov. 23
Dec. 19	Topeka, Kan.	Nov. 23
Dec. 19	New York Adv. Nov. 30.	Nov. 30
Dec. 19	West Virginia	Nov. 30
Dec. 22	Spokane, Wash.	Nov. 2
Dec. 22	Eldorado, Kan.	Nov. 23
Dec. 22	Duluth, Minn.	Nov. 30
Dec. 23	Mound City, Tex.	Nov. 30
Dec. 28	Mobile, Ala. Adv. Nov. 30.	Nov. 30
Dec. 30	Quebec	Nov. 23
Dec. 30	Quebec	Nov. 2
Dec. 30	Quebec	Nov. 9
Dec. 30	Quebec	Nov. 16
Dec. 30	Quebec	Nov. 30
Jan. 7	Duluth, Minn.	Sept. 28

INDUSTRIAL WORK

Dec. 9	Pittsburgh, Pa.	Nov. 16

BUILDINGS

Dec. 1	Dayton, O.	Nov. 30
Dec. 4	Cleveland, O.	Nov. 23
Dec. 4	Freeport, N. Y.	Nov. 23
Dec. 4	Memphis, Tex.	Nov. 23
Dec. 5	Wichita Falls, Tex.	Nov. 23
Dec. 5	San Antonio, Tex.	Nov. 30
Dec. 7	Corydon, Ia.	Nov. 23
Dec. 7	Lodi, Calif.	Nov. 23
Dec. 7	Phila., Pa.	Nov. 30
Dec. 8	Morristown, Tenn.	Nov. 30
Dec. 9	Port Washington, N. Y.	Nov. 16
Dec. 9	Jacksonville, Fla.	Nov. 30
Dec. 12	Amarillo, Tex.	Nov. 30
Dec. 14	Allentown, Pa.	Nov. 16
Dec. 15	Chisholm, Minn.	Nov. 23
Dec. 18	Bakersfield, Calif.	Nov. 16
Dec. 18	Santa Barbara, Calif.	Nov. 30
Dec. 20	Binghamton, N. Y.	Nov. 23
Dec. 21	Hancock, Mich.	Nov. 30
Dec. 22	McCombs, O.	Nov. 30
Dec. 28	Kenosha, Wis.	Nov. 30
Jan. 2	Olean, N. Y.	Nov. 9
Jan. 2	Duluth, Minn.	Nov. 23
Mar. 23	Shreveport, La.	Nov. 9

FEDERAL GOVERNMENT WORK

Dec. 1	Steel Hull — Pittsburgh, Pa. Adv. Nov. 9 to 30.	Nov. 9
Dec. 4	Extension, etc. — Altoona, Pa.	Nov. 16
Dec. 4	Power Houses—Cape Henry, Va.	Nov. 9
Dec. 6	Repairs—Phila., Pa.	Nov. 16
Dec. 6	Pumping Units — Boise, Idaho	Oct. 19
Dec. 7	Dwellings—Huntington, W. Va.	Nov. 16
Dec. 11	Barges—Rock Island, Ill. Adv. Nov. 16 to 30.	Nov. 16
Dec. 11	Changes—Oakland, Calif.	Nov. 23
Dec. 12	Hospital—Knoxville, Ia. Adv. Nov. 16 to 30.	Nov. 16
Dec. 13	Dredging—New York, N. Y.	Nov. 23
Dec. 14	Garage, etc.—San Diego, Calif.	Nov. 16
Dec. 14	Barges—Vicksburg, Miss. Adv. Nov. 16 to 30.	Nov. 16
Dec. 15	Dredging—Detroit, Mich. Adv. Nov. 16 to 30.	Nov. 16
Dec. 15	Maneuver Boat—Huntington, W. Va. Adv. Nov. 23 and 30.	Nov. 23
Dec. 18	Buildings, Electrical Work, etc. —Livermore, Calif. Adv. Nov. 23 and 30.	Nov. 23
Dec. 20	Barges—Milwaukee, Wis.	Nov. 23
Dec. 20	Lock Gates — Pittsburgh, Pa. Adv. Nov. 23 and 30.	Nov. 23
Dec. 20	Excavating Cut-offs—Wilmington, Del. Adv. Nov. 23 and 30.	Nov. 23
Dec. 20	Repairs—San Diego, Calif.	Nov. 23
Dec. 20	Pier Extension—Puget Sound, Wash.	Nov. 23
Dec. 20	Riprapping Dike—Mare Island, Calif.	Nov. 23
Dec. 20	Quarters, etc. — El Paso, Tex. Adv. Nov. 30.	Nov. 30
Dec. 21	Breakwater—Phila., Pa. Adv. Nov. 23 and 30.	Nov. 23
Dec. 26	Barge—Wilmington, N. C. Adv. Nov. 30.	Nov. 30
Jan. 3	Piers—Pearl Harbor, H. T.	Nov. 16

MISCELLANEOUS

Dec. 4	Landscape Work—Redwood City, Calif.	Nov. 23
Dec. 4	Electrical Distribution System —Ridgway, S. C.	Nov. 23
Dec. 4	Electric Light Standards — Buffalo, N. Y.	Nov. 30
Dec. 5	Gate Valves, etc.—New York, N. Y.	Nov. 16
Dec. 5	Excavator and Tractor — Ft. Pierce, Fla.	Nov. 30
Dec. 5	Lumber—Bedford, Ia.	Nov. 30
Dec. 6	—Traveling Crane—San Francisco, Calif.	Nov. 16
Dec. 6	Piling and Lumber—Indianola, Ia.	Nov. 30
Dec. 6	Road Machinery—Illinois. Adv. Nov. 30.	Nov. 30
Dec. 7	Gas Distribution System — Alexandria, La.	Nov. 30
Dec. 7	Shed—New Orleans, La.	Nov. 30
Dec. 7	Creosoted Piles—New Orleans, La.	Nov. 30
Dec. 8	Coarse Aggregate—New York, N. Y.	Nov. 30
Dec. 13	Wall—Delaware Adv. Nov. 30.	Nov. 30
Dec. 14	Wharf—New Orleans, La. Adv. Nov. 30.	Nov. 30
Dec. 18	Coal Handling Plant — Melbourne, Victoria, Australia	Sept. 21
Dec. 27	Dock Wall—Buffalo, N. Y. Adv. Nov. 30.	Nov. 30
Jan. 1	Transmission Line—Spokane, Wash.	Nov. 9

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y. Floral Park—Bd. Village Trustees retained C. E. Marshall, civil engr., Hempstead, to prepare plans for water system, incl. pumping plant and standpipe.

N. J., Gloucester City—Soon takes bids new pumping station and filtration plant. $80,000. Remington & Vosbury, 6th and Market Sts., Camden, engrs.

N. C., Hickory—City plans new water supply incl. 20 mi. gravity pipe line, to serve Hickory, West Hickory and Highland. P. Robinson, mayor.

Miss., Magee—See "Industrial Works."

La., Lecompte—Plans to vote on $40,000 bonds for waterworks and electric light extensions. Swanson-McGraw, United Fruit Bldg., New Orleans, counsult. engrs.

Ill., Lena — Making plans improving waterworks, incl. more economical pumping equipment. $15,000. J. N. Gates, clk. W. G. Kirchoffer, Dean Bldg., Madison, Wis., engr.

Wis., Woodville—Making plans complete waterworks system. $150,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Waterworks (Continued)

Ia., Van Horne—Making plans municipal waterworks. $35,000. H. R. Green, Cedar Rapids Savings Bank Bldg., Cedar Rapids, engr.

Kan., Quinter—Having plans prepared for new waterworks system. $40,000 bonds voted. Ruckel Eng. Co., Hutchinson, engrs.

Tex., Canton—Voted $50,000 bond issue for waterworks improvements and electric light plant. O'Neill Eng. Co., Dallas, engrs.

Tex., Dallas—City Comn. takes bids middle of January, two 2,000,000 gal. water towers, concrete or steel, one at Belmont other at Junius Heights. $40,000 each. G. D. Fairtrace, city engr.

Tex., Dallas — City Comn. takes bids about January 1 for 1 mi. 20 in. main in East Dallas. $100,000. G. D. Fairtrace, city engr.

Tex., Leonard—Dec. 12, to vote on $15,600 bond isue for new mains. Elrod Eng. Co., 3206 Elm St., Dallas, engrs.

Tex., McLean—Attorney Generals Dept., Austin, approved $30,000 bond issue for light and power, and $39,000 bond issue for waterworks improvements. Address Mayor. Noted July 6.

Tex., Wylie—Voted $50,000 bond issue for waterworks improvement. Address G. W. Housewright, mayor. Noted Nov. 2.

Okla., Tyrone — Had plans prepared waterworks improvements incl. plants and mains. $70,000. Ruckel Eng. Co., Interurban Bldg., Hutchinson, Kan., engrs. Noted Oct. 12.

N. M., Albuquerque—Rejected bids, rein.-con. reservoir, $75,000 bonds voted. Work will be done by day labor. Noted Oct. 5.

Ore., Portland—L. S. Kaiser, supt. waterworks, City Hall, receives bids next year for North and South Portland pumping system $20,000, Sandy River control system $3,000, Vernon standpipe and house $35,000, Myrtle Park system $8,000, Fulton and Burlington system $3,000, repairs to present system $209,350.

Calif., Modesto—City plans to purchase 240 ton c.i. pipe for water system. G. Freitas, city engr.

BIDS DESIRED

N. Y., Long Island City—Dec. 5, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Astoria, Schurz and Sigel Aves., Frye, 23rd, 24th and 25th Sts. 2nd Ward.

N. Y., Brooklyn—Dec. 19, by Bd. Water Supply, Municipal Bldg., New York, constructing Mt. Prospect conduit a portion of city conduits of Catskill aqueduct from Shaft 24 of city tunnel in Ft. Greene Park, along Cumberland St., Lafayette, Washington and Flatbush Aves., to Clarkson Ave., here. G. J. Gillespie, pres.; adv. this issue.

Mich., Detroit—Dec. 5, by Secretary Bd. Water Comrs., 176 East Jefferson Ave., watermain crossing at Fort St. and River Rouge, incl. 430 ft. 24 or 26 in. c.i. or steel pipe. $15,000. T. A. Leisen, Waterworks Park, engr.

Mich., Monroe—Dec. 11, by F. M. Kressbach, city clk., coagulation basin, consisting of underground rein.-con. substructure with brick superstructure. Hoad, Decker, Shoecraft & Drury, Ann Arbor, consult. engrs.; adv. this issue.

Calif., Merced—Dec. 5, by W. D. Wagner, secy. Merced Irrigation Dist., furnishing f.o.b. factory, 4 pumps direct connected to 4 electric motors with motor control equipment, etc., 2 for Booster Plant No. 2, and 2 for Booster Plant No. 3, of Lake Yosemite-Le Grand highline canal. R. C. Starr, ch. engr.

BIDS RECEIVED

Calif., Fair Oaks—Fair Oaks Irrigation Dist., furnishing riveted steel pipe, (1) 1,400 ft. 4 in. pipe (2) 4,300 ft. 12 in. (3) 4,200 ft. 10 in. (4) 1,100 ft. 9 in. (5) 9,100 ft. 8 in. (6) 1,100 ft. in. (7) 3,800 ft. 6 in. and (8) 4,300 ft. 4 in., from Montague Pipe & Steel Co., Hobart Bldg., San Francisco, (1) $1,931 (2) $3,894 (3) $3,281 (4) $752 (5) $5,783 (6) $551 (7) $1,669 (8) $1,351; Pacific Pipe Co., 201 Howard St., San Francisco, (1) $1,931 (2) $3,894 (3) $3281 (4) $752 (5) $5,783 (6) $551 (7) $1,669 (8) $1,351; Western Pipe & Steel Co., of California, 444 Market St., San Francisco, (1) $1,694 (2) $3483 (3) $2940 (4) $709 (5) $4,641 (6) $506 (7) $1,596 (8) $1,375. Noted Nov. 9.

CONTRACTS AWARDED

Me., Auburn—Bd. Water Comrs., electric pumping plant, 1 story, 28 x 62 ft., brick and rein.-con., to Portland Constr. Co., 52 Exchange St., Portland. $16,500.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Ditmars Ave., 1st Ward, and Griffith St., 2nd Ward, etc., to F. Paino, 572 1st St. Brooklyn. $7,762 and $5,808 respectively, Noted Nov. 23.

O., Cleveland — Steel frame for Fairmount pumping station, 1 story, Fairmount Rd., to Forest City Steel & Iron Co., 1500 West 110th St., $135,037. Total cost $1,000,000. Foundation work is underway by Hunkin-Conkey Constr. Co. Century Bldg.

Ill. Aurora—Drilling artesian well, 2,300 ft. deep, 12 in. at bottom, to S. B. Geiger, Old Colony Bldg., Chicago, $29,960.

Wis., Waupaca—Emergency pumping unit incl. centrifugal pump and motor, to Hayton Pump & Blower Co., 575 2nd Ave., Appleton. Noted Nov. 2.

Wash., Tacoma—Furnishing c.i. mains for South J and K Sts., to Amer. Cast Iron Pipe Co., c/o R. C. Polk, Perkins Bldg., $46,120. Engrs. est. $47,000. Noted April 13.

Sewers

PROPOSED WORK

N. Y., Glens Falls—Revising plans for 2 sewage pumping stations and sewer pipe. $120,000. J. Meyer, City Hall, city engr.

Pa., Berwick—Plans new sewers. $80,000. A. Potter, c/o Town Council, consult engr.

Fla., Tallahassee — See "Streets and Roads."

Mich., Royal Oak — Plans main trunk sewer, incl. 5,000 ft. 12 in. and 3,150 ft. 24 in. vitr. pipe. $35,000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ia., North English — Takes bids in January for sewerage system and disposal plant. $40,000. H. R. Green, 634 Cedar Rapids Savings Bank Bldg., Cedar Rapids, engr. Noted Feb. 23.

Ia., Ossian—Making plans and takes bids about Feb. 1 for sewerage system and disposal plant. $50,000. H. R. Green, Co., 634 Cedar Rapids Savings Bank Bldg., Cedar Rapids, engr.

SEWER—HAMMOND, IND.

Bids were opened by city for constructing main district sewer on North Side (A) United Constr. Co., Hammond (awarded contract); (B) Illinois Impvt. & Constr. Co. The unit bids were as follows:

Reinforced-Concrete Pipe	Average Cut	A	B
1,792 lin.ft. 84-in.	21 ft.....	$54.97	$53.00
2,378 lin.ft. 78-in.	20 ft.....	46.97	50.00
667 lin.ft. 78-in.	19.4 ft.....	44.96	55.00
2,368 lin.ft. 72-in.	19.6 ft.....	45.96	50.00
1,950 lin.ft. 66-in.	19.1 ft.....	43.95	40.00
2,674 lin.ft. 60-in.	16.2 ft.....	33.98	39.00
1,480 lin.ft. 30-in.	13.23 ft....	.....	15.00
1,820 lin.ft. 24-in.	9.94 ft. V.P.	12.00	12.00
1,285 lin.ft. 36-in.	14 ft.....	17.45	18.00
1,311 lin.ft. 30-in.	12.4 ft.....	14.97	15.00
2,674 lin.ft. 48-in.	16.9 ft.....	29.96	22.00
660 lin.ft. 36-in.	13.9 ft.....	17.95	18.00
1,316 lin.ft. 30-in.	12.52 ft....	16.00	15.00
1,027 lin.ft. 24-in.	11.2 ft.....	12.50	12.00
648 lin.ft. 24-in.	11.8 ft.....	12.50	12.00
218 lin.ft. 36-in.	13.8 ft.....	21.44	18.00
963 lin.ft. 43-in.	14.1 ft.....	22.43	22.00
660 lin.ft. 42-in.	12 ft.....	19.84	20.00
621 lin.ft. 36-in.	12.7 ft.....	18.46	18.00
673 lin.ft. 36-in.	14.1 ft.....	20.47	18.00
731 lin.ft. 30-in.	13.1 ft.	18.96	15.00
Extended totals] including house drains.....		$846,597	$856,684

Minn., South St. Paul—City voted $100,000 bonds for sewer extensions in various streets. J. R. Stevenson, city clk.

Kan., Pittsburg—Had plans prepared for sewers and sewage disposal plant, $125,000 bonds voted. Black & Veatch, 701 Mutual Blk., Kansas City, Mo., engrs. Noted Oct. 26.

Tex., Houston—Plans sanitary sewer in Castle, Court and Turner Sts. $65,000. J. C. McVea, city engr.

Tex., Leonard — Dec. 12, to vote on $35,000 bond issue for disposal plant and sewers. Elrod Eng. Co., 3206 Elm St., Dallas, engrs.

Tex., Necona—Dec. 19, to vote on $50,000 bond issue for sewage disposal plant and sewers. Elrod Eng. Co., 3206 Elm St., Dallas, engrs.

BIDS DESIRED

N. Y., New York—Dec. 8, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 4 ft. circular wooden barrel sewer under Contr. 2 for making certain changes to outlet sewer in Roosevelt St. in connection with proposed improvement under Manhattan end of Brooklyn Bridge.

Tex., Harlingen—Dec. 15, by City Council, concrete storm sewers in various streets. $52,000. Will take bids later for sewage disposal plant, $20,000. A. Tamm, city engr.

Cal., San Diego—See "Miscellaneous."

Ont., Hamilton—Dec. 6, by G. C. Copley, chn. Bd. Control, 2,480 lin.ft. sewer in King and McKittreick Sts., 1,170 ft. 6 ft. 3 in. x 5 ft. 6 in., and 1,310 ft. 5 ft. 6 in. x 5 ft. 6 in., brick or concrete. $60,000. E. R. Gray, city engr.

BIDS RECEIVED

O., Akron—W. F. Peters, dir. Pur. Serv opened bids Nov. 20, sewers in (1) Little Cuyahoga River Interceptor Contr. 3, 5,995 ft. (a) segmental block or (b) brick pipe, engrs. est. $200,000 (2) Little Cuyahoga River Interceptor, Contr. 4, 6,500 ft. (a) segmental block or (b) brick pipe, engrs. est. $165,000, from W. P. Gibbons Contg. Co., Cleveland (street address not available) (1a) $229,091 (1b) $200,801; T. L. McShaffrey Constr. Co., 170 South Forge St., (1a) $234,297 (1b) $235,897 (2a) $190,464 (2b) $190,709; Stevens & McKeon, Cleveland (street address not available) (2a) $165,758 (2b) $159,786; G. Wade, Cincinnati, (street address not available) (2b) $164,512.

Mich., Detroit—Opened bids building vitr. crock sewers as follows: (1) Relief Arm Sewer in Harper Ave. (2) Lateral 3759 (3) Lateral 3758 (4) Lateral 3759 (5) Lateral 3762 (6) Lateral 3767 (7) Lateral 3768 (8) Lateral 3769 (9) Lateral 3770 (10) Lateral 3771 (11) Lateral 3778 (12) Lateral 3779 (13) Lateral 3780 (14) Lateral 3781 (15) Lateral 3783 (16) Lateral 3784 (17) Lateral 3785 (18) Lateral 3786, from Western Constr. Co., 1208 Ford Bldg., (1) $7,239 (2) $2,820 (6) $4,428 (7) $4,732 (8) $8,707 (9) $11,989 (10) $5,135 (13) $2,456 (14) $2,738 (15) $5,286 (16) $1,692 (17) $4,530; W. Blanck & Co., 823 Ford Bldg., (1) $8,625 (2) $2,972 (3) $8,200 (4) $9,027 (5) $10,693 (6) $4,742 (7) $5,139 (8) $9,334 (9) $12,617 (10) $6,100 (11) $7,164 (13) $2,360 (14) 2,789 (15) $6,077 (17) $4,261 (18) $10,740; T. P. Nolan, 22 Highland Ave., (1) $9,990 (3) $7,900 (4) $9,200 (5) $10,000; A. Rossi, 5307 Pennsylvania Ave., (2) $4,2000 (12) $4,273 (16) $2,029; J. F. Gentile, 920 Rowena Ave. (5) $11,482; G. Ponterilli, Wolverine Hotel, (6) $4,947 (7) $5,180 (9) $12,959; Coolsaet Bros., 400 Penobscot Bldg., (8) $9,870; Detroit Drainage Constr. Co., Penobscot Bldg., (11) $7,462; Lennane & McIlvenna 1205 Book Bldg., (11) $7,500 (13) $2,600; Cappello & Fattore, 2151 Hale St., (12 $4,258; J. Zuccola, Detroit (street address not available) (12) $4,113; J. Rossi, 4148 Seneca Ave., (14) $3,500, (18) $16,597; Martin & Krausman, Vinton Bldg., (16) $2,200.

Ia., Des Moines—For 150 ft. 48 in. rein.-con. sewer, 6 counterports and 5 arch panels, from J. Horrabin Constr. Co., 1422 Walnut St., $24,600; Koss Constr. Co., 2818 5th St., $28,333; F. E. Marsh Co., Masonic Temple $28,900.

CONTRACTS AWARDED

Conn., New Haven—Sewers in Chapel St and Yale Ave., to Dwyer & Mannix, 355 Shelton Ave., $105,596.

O., Akron—Theodore St. trunk sewer, 900 ft. 42 in. brick, on piling and slab foundation, to T. E. McShaffrey Constr. Co., 170 South Forge St., $35,000.

N. M., Albuquerque—For sewage disposal plant, to French-Harvey-Peabody, Sante Fe. (street address not available). $57,984. Noted Oct. 5.

Waste Disposal

PROPOSED WORK

W. Va., Morgantown—Plans incinerating plant. $25,000. A. A. Hall, city mgr.

BIDS DESIRED

Ore., Portland—Dec. 29, at office City Purchasing Agent, for garbage incinerator. O. Laurgaard, city engr.; adv. this issue. Noted Nov. 23.

Bridges

PROPOSED WORK

O., Hamilton—Voted $30,000 bonds for rebuilding bridge over Indian Creek on Venice Rd.

O., Painesville—Preparing plans 420 ft. concrete arch and girder bridge over Grand River, Lake Co. near here. $155,000. C. C. Hadden, Court House, engr. W. P. Brown, 750 Prospect Ave., Cleveland, consult engr.

Ill., Sterling—Whiteside Co. rejected bids for 1,032 ft. rein.-con. arch bridge on 1st Ave. over Rock River, 28 ft. roadway, two 7 ft. sidewalks. Noted Nov. 9.

Wis., Racine—Having preliminary plans prepared for 186 ft. rein.-con. and steel bridge on 4th St., 80 ft. draw span, 40 ft. roadway, two 10 ft. walks. $50,000. J. W. Beaugrand, City Hall, engr

S. D., Hot Springs—Fall River Co. plans 450 ft. timber and steel bridge with three 94 ft. spans, concrete abutments, over Cheyenne River. $25,000. W. F. Fitzgerald, aud.

B. C., Prince George—Provincial Government, Victoria, having plans prepared and takes bids in spring, timber truss bridge and approaches 200 ft. long with approaches, over Willow River. $25,000. P. Philip, Dept. Pub. Wks., Victoria, engr.

BIDS DESIRED

N. Y., Hamburg—Dec. 14, by Joint Town Bd. of Hamburg and Evans at office of J. E. Leach, town clk. of Hamburg, 180 ft. steel truss span bridge, 24 ft. roadway, over Eighteen Mile Creek on Lake Shore State Highway. G. C. Diehl, 577 Ellicott Sq., Buffalo, co. engr.; adv. this issue.

Virginia—See "Streets and Roads".

West Virginia—Dec. 19, by State Rd. Comn., Charleston, constructing bridge 856, across Spruce Fork River, Project 3059, Logan Co., 130 ft. steel through truss superstructure, concrete or Ashlar masonry substructure. $25,000. J. N. Smith, Logan, engr.; Bridge 811, across Twelve Pole Creek, Project 3061, Wayne Co., 120 ft. steel through truss superstructure, concrete or Ashlar masonry substructure. $25,000. H. O. Wiles, Ceredo, enrg. Separate bids on substructures and superstructures.

N. C., Nashville — Dec. 12 by Comrs. Nash Co., 10 small bridges and 2 culverts, 650 cu.yd. concrete, 30,000 lb. reinforcing and 150,000 lb. structural steel etc. $26,000. M. V. Barnhill, Rocky Mount, chn.

Tennessee—See "Streets and Roads."

Ia., Dubuque—Dec. 5, by Supervs. Dubuque Co., for 58 box culverts and extensions, and one 80 ft. pony truss, $41,300. Iowa Hy. Comn., Ames, engrs.

Ia., Mt. Ayr—Dec. 12, by Supervs. Ringgold Co., furnishing material and constructing 49 box culverts, 5 extensions, 1 I-beam and 1 pony truss bridge, 50,900 lb. steel, 116,845 lb. reinforcing, 1781.6 cu.yd. rein.-con. etc. $45,500. Iowa Hy. Comn., Ames, engrs.

S. D., Yankton—Dec. 11, by Meridian Hy. Bridge Co., furnishing and delivering, erecting jointly or separately 3,700 ton of steel for superstructure of bridge over Missouri River, here. Harrington, Howard & Ash, 1012 Baltimore Ave., Kansas City, Mo., consult. engrs.; adv. this issue.

Missouri—Dec. 9, by State Hy. Dept. at div. office Hermann, one 200 ft. and three 95 ft. steel truss two 35 ft. I-beam and 3 deck plate girder spans, 1 concrete abutment, 4 rein.-con. pile bents, 5 rein.-con. piers, 20 ft. roadway, over Gasconade River on road near Mt. Sterling from Jefferson City to St. Louis, Federal Aid Project 219, Gasconade Co. Waddell & Son, 800 Graphic Arts Bldg., Kansas City, consult. enrgs. Noted Oct. 26.

Missouri—Dec. 16, by State Hy. Dept. at div. offices Fayette and Marshall, one 224 ft., one 344 ft., two 316 ft. and one 248 ft. steel truss, one 36 ft. and thirty-five 20 ft. spans, 6 rein.-con. piers from 87 to 112 ft. high, over Missouri River near Glasgow, Howard and Saline Counties. F. W. Adgate, Rookery Bldg., Chicago, consult. engr.

Wash., Spokane—Dec. 11, by Spokane Co., 422 ft. concrete bridge consisting one 150 ft. and two 80 ft. spandrel arches with 40 ft. concrete girder approaches at each end, 24 ft. clear roadway, over Spokane River. H. S. Baker, co. engr.

CONTRACTS AWARDED

N. Y., Niagara Falls — Michigan Central R.R., Passenger Terminal Sta., Detroit, Mich., 640 ft. double track cantilever bridge to replace present bridge over Niagara Gorge, to Amer. Bridge Co., Widener Bldg., Phila. Engrs. est. $3,000,000. Construction is being held up on account of difficulties in securing necessary permits.

N. J., Dover—State Hy. Dept., Trenton, repairing bridge over Barnegat Bay from Seaside Heights to Island Heights, here, to L. J. Seiling, Red Bank, $83,718. Noted Nov. 2.

N. J., Washingtons Crossing (Taylorsville, Pa., P. O.)—Joint Comn. for Elimination of Toll Bridges over Delaware River between New Jersey and Pennsylvania, State House, Trenton, repairing bridge over Delaware River, here, to Dover Boiler Wks., Dover, $28,824. Noted Oct. 19.

Mich., Leoni (R. D. Grass Lake)—State Highway Dept., Lansing, Bridge 380701, two span girder, 118 ft. long, over Michigan Central R.R. tracks, concrete foundation, to Fargo Eng. Co., Jackson; furnishing steel to McClintic-Marshall Co., Oliver Bldg., Pittsburgh. Michigan Central R.R. will construct concrete deck and upperwork. Total est. $150,000. Noted Oct. 5.

Ia., Greenfield—Supervs. Adair Co., to F. W. Kempe, Greenfield, 23 box culverts $16,000, concrete figures $20.28 per cu.yd.; Des Moines Eng. and Constr. Co., 418 Polk Bldg., Des Moines, one 80 x 24 ft. deck truss bridge, $12,690, concrete figures $25.12. Engrs. est. $31,307. Noted Nov. 23.

Ia., Waterloo—Blackhawk Co., 27 culverts and extensions, 1 I-beam and 1 pony truss bridge, to C. W. Pedersen, Northwood, $25,000. Engrs, est. $26,435.

Tex., Corsicana—See "Streets and Roads."

Tex., Lufkin—See "Streets and Roads."

Que., Vaudreuil—Provincial Government, at office J. L. Boulanger, deputy minister of highways, Quebec, superstructure of bridge from here to Ile Perrot, to Dominion Bridge Co. Ltd., Lachine, $124,798, balance of work to Dufresne Constr. Co., Montreal, $135,140. Noted Oct. 19.

Dams

PROPOSED WORK

Ark., Cotter—See "Industrial Works."

BIDS DESIRED

W. Va., Bluefield—Jan. 5 (change of date), by Bluefield Water Works & Impvt. Co., constructing clay or earthen dam. W. McCarthy, supt.; adv. this issue. Noted Nov. 16.

SEWAGE DISPOSAL PLANT, ETC.—LUBBOCK, TEX.

Following are lowest three bids opened Nov. 3, by P. Spencer, Mayor, for sewage disposal plant, sewers, and water mains, (A) Janes Constr. Co., Southwestern Life Bldg., Dallas, (awarded contract); (B) Pittsburgh-Des Moines Steel Co., Dallas; (C) Municipal Excavating Co., Oklahoma City, Okla. The unit bids were as follows:

Item 1—Water Pipe	A	B	C
43,200 lin.ft. 6-in. c.i. pipe	$1.42	$1.40	$1.42
9,940 lin.ft. 8-in. c.i. pipe	1.82	1.95	1.95
27 lin.ft. 6-in. valves	35.62	35.00	30.00
22 lin.ft. 8-in. valves	48.84	50.00	43.00
129 lin.ft. hydrants	66.93	60.00	62.00
1,000 cu.yd. rock excavation	3.00	2.00	4.00
Sub-totals	$93,701	$91,648	$94,481
Item 2—Sewers			
6-in. pipe			
40,499 lin.ft. 0-6	$0.45	$0.53	$0.52
15,596 lin.ft. 6-8	.52	.63	.55
3,760 lin.ft. 8-10	.59	.85	.62
140 lin.ft. 10-12	.75	1.10	.68
8-in. pipe			
20,630 lin.ft. 0-6	.62	.73	.68
3,925 lin.ft. 6-8	.69	.85	.72
4,850 lin.ft. 8-10	.76	1.06	.79
700 lin.ft. 10-12	.92	1.30	.85
10-in. pipe			
180 lin.ft. 0-6	.81	.98	.89
1,230 lin.ft. 6-8	.88	1.11	.93
700 lin.ft. 8-10	.95	1.33	1.00
2,520 lin.ft. 10-12	1.11	1.58	1.06
4,000 lin.ft. 12-14	1.27	1.75	1.30
1,890 lin.ft. 14-16	1.43	2.00	1.40
146 manholes	60.00	65.00	60.00
100 extra depth manholes	6.00	7.00	7.00
2,000 cu.yd. rock excavation	3.00	2.00	4.00
Sub-totals	$76,320	$90,511	$83,325
Disposal Plant No. 1			
1,000 manhours	$0.50	$0.37½	$0.40
500 teamhours	.75	.75	.80
500 concrete forms	.20	.35	.40
20 cu.yd. class IV concrete	16.00	17.50	25.00
4 M ft. b.m. timber in foundations	50.00	55.00	50.00
1,000 cu.yd. ditch excavations	.50	1.00	.50
Sub-totals	$44,345	$43,220	$52,200
Extended grand totals	$214,366	$225,380	$230,007

Railways

PROPOSED WORK

Idaho—Oregon Short Line R.R. Co. preparing plans and takes bids in about 3 months for standard gauge line from Orchard to Perkins. $3,180,550. R. L. Huntley, 3344 Harnery Ave., Omaha, Neb., ch. engr.

Excavation, Drainage, Irrigation

PROPOSED WORK

N. C., Washington—Bd. Drainage Comrs., Little Swift Creek D.D., Beaufort Co. D.D. 10, will sell $185,000 bonds for drainage work. G. Green, New Bern, chn.

Wis., Green Bay—Brown Co. Farm Drainage Bd. plans to form two districts: Farm Drainage 3 includes 8 mi. open ditch aggregating 140,000 cu.yd.; Farm Drainage 4 includes 5 mi. open ditch 9,600 ft. 6-15 in. tile drain. $50,000. F. Desnoyes, secy.

Wis., Watertown—Jefferson Co. Farm Drainage Bd., Jefferson, plans 4 mi. open ditch incl. 52,000 cu.yd. excav., 8,800 ft. 8-15 in. tile. $25,000. J. W. Puerner, Jefferson, secy.

Mo., Maryville—Nodoway Co. had plans prepared for 7½ mi. open ditch in Skidmore-Maitland D. D., 390,000 cu.yd. excav. $40,175. W. B. Hazen, 53 Commercial Bldg., St. Joseph, engr.

Mo., Trenton—Grundy Co. had plans prepared for 11.35 mi. open ditch in Brimson D. D., 974,640 cu.yd. excav. $100,000. W. B. Hazen, 53 Commercial Bldg., St. Joseph, engr.

Ark., Riverdale—Directors D. D. 7, Poinsett Co. (Harrisburg), takes bids about middle of December concrete drainage culvert with 8 barrels each 6½ ft. wide, 8½ ft. high, 750 ft. long, 2,800 lin.ft. Wakefield sheet piling, 9,000 cu.yd. concrete, 230 ton reinforcing steel. Pride & Fairley, Blytheville dist. engrs. Elliott & Harman Eng. Co., 1420 Bank of Commerce and Trust Co. Bldg., Memphis, Tenn., consult. engrs.

Nev., Minden—Carson Valley Irrigation Dist. having preliminary investigation made for storage reservoirs, canals and structures for irrigating 40,000 acres. $500,000. L. H. Taylor & Co., 309 State Life Bldg., Reno, engrs.

Excavation, Drainage and Irrigation
(Continued)

Ore., Prineville—Powell Butte Irrigation Dist. voted $1,050,000 bonds for irrigation project between Powell Butte and Prineville, Crook Co., incl. reservoir 54,000 acre ft. capacity, 38,000 gross and 13,000 irrigable acres. No contracts will be let until reservoir is tested and proved feasible. J. E. Myers, Prineville, secy. J. O. Baar, 26 East 28th St., Portland, engr.

BIDS DESIRED

Calif., Merced—Dec. 5, by Dirs. Merced Irrigation Dist., drilling and lining not more than 30 drainage wells. Bidder to state number of wells he will drill in time specified and number of rigs he will employ, although minimum number of wells bid on, shall not be less than 15. R. C. Starr, ch. engr.

Calif., Merced—See "Waterworks."

Streets and Roads

PROPOSED WORK

Massachusetts—State Hy. Dept., Boston, having surveys made road from Williamstown to State line, connecting with Albany, N. Y. F. W. Hodgden, Dept. Pub. Wks., Boston, ch. engr.

Pa., Beaver—Plans $100,000 bond issue for new paving and repaving.

Pa., Erie—Plans extending 22nd, 23rd, 24th and 25th Sts. $50,360. F. G. Lynch, city engr.

Pa., Meadville—Crawford Co. plans paving 8.69 mi. Hydetown-Centreville Rd., macadam. $350,000. Engineer not announced.

Pa., Scranton—Plans paving Wayne Ave. $25,000; Monsey Ave. $27,217; Delaware, Marion and New York Sts., South Hyde Park, South Lincoln, South Rebecca and South Garfield Aves., cost to exceed $50,000; Oram Blvd., Pettebonne and Vine Sts., to exceed $30,000. Various types of pavement will be considered. W. Lafontaine, dir. pub. wks.

Md., Towson—Baltimore Co. voted $2,000,000 bonds extending and improving road system. S. Green, co. engr.

W. Va., Philippi — Union Dist., Barbour Co., voted $200,000 bonds for permanent highways.

Ga., Blakely—Early Co. had plans prepared paving 0.63 mi. Blakely-Colquitt Rd., Federal Aid Project 16, 6,674 sq.yd. 6 in. plain concrete. In addition city council will award to successful bidder 8,956 sq. yd. plain concrete pavement and 6,956 lin. ft. concrete curb and gutter. E. J. Smith, Williamson Bldg., Thomasville, engr.

Fla., Bradentown—Plans election to vote on $25,000 bonds constructing Main St., 24 ft. Kirley & Myler, Bradentown, engr.

Fla., De Land—Volusia Co. election Dec. 19, to vote on $170,000 bonds paving with rock, tarvia dressing, 17 mi. Dixie Highway through Oak Hill to Brevard Co. line; $80,000 bonds 8 mi. Dixie Highway from Shiloh Rd. to southern county line and Coronado Rd.; $50,000 bonds 5 mi. Dixie Highway from Rose Bay to Brevard Co. line; bonds for 30 mi. Dixie Highway from New Smyrna to Osteen Ferry Rd., all 15 ft. wide. R. Bishop, chn. Bd. Co. Comrs.

Fla., Tallahassee—Voted $125,000 bonds paving various streets, $12,000 for sewer extensions, and $8,000 repairing septic tanks.

Fla., Tavares—Lake Co. election Dec. 12, to created Special Road and Bridges Districts and vote on $225,000 bonds constructing 15 mi. road from Marion Co. line to Leesburg; $75,000 bonds 5 mi. road from Leesburg to Silver Lake Estates; $60,000 bonds 4 mi. road from Leesburg west to Sumter Co. line; $45,000 bonds 3 mi. road from Silver Lake Estates to Dead River Bridge; $30,000 bonds 2 mi. road from Euclid Ave. to Helena River; $90,000 bonds 6 mi. road from Silver Lake Estates along Rd. 2, to east line of district. Engineer not named, but probably G. E. Heller, Tavares.

Ky., Owenton—Owen Co. election Dec. 23, to vote on $200,000 bonds constructing roads, incl. roads from Owenton to Stamping Grounds and Frankfort.

Mich., Detroit — Having plans prepared paving with 3½ in. sheet asphalt on concrete, 2,600 sq.yd. Wager Ave. from Savery to McQuade Sts., 26 ft., $13,340; 2,100 sq.yd. Eastlawn Ave. from Charlevoix to Mack Aves., 26 ft., $11,490; 11,500 sq.yd Tireman Ave. from Livernois Ave. to Detroit Terminal R.R., 30 ft., $58,600; 8,000 sq.yd. Glendale Ave. from Linwood to Dexter Aves., 26 ft., $40,150; 1,600 sq.yd. Moyes St. from Burton to Martin Sts., 26 ft., $8,690, 3,800 sq.yd. Dodge St. from Hamtramck (branch of Detroit) to Mt. Elliott Ave., 26 ft., $19,250, 950 sq.yd. Linsdale Ave. from Colfax to Epworth Sts., 26 ft., $4,940, 1,800 sq.yd. Glinnan Ave. from Fort to Lafayette Sts., 16 ft., $8,780; 2,600 sq.yd. Fleming Ave. from Six Mile Rd. to Stender Ave., 26 ft., $13,300; 2,200 sq.yd. Quincy Ave. from Hazelwood Ave. to Joy Rd., 26 ft., $11,390; 700 sq.yd. Gibson Ave. from Tuscola to Selden Aves., 18 ft., $3,600; 4,300 sq.yd. Casper Ave. from St. Stephens to Michigan Aves. 20 ft., $21,760; 1,100 sq.yd. Hussar St. from Dragoon to Artillery Sts., 26 ft., $5,830; 3,000 sq.yd. Nardin Ave. from Bordeau to Burlingame Aves., 26 ft., $15,130; 3,000 sq.yd. Burton Ave. from Michigan to Pelouze Sts., 26 ft., $16,320. J. W. Reid, city engr.

South Dakota—State Hy. Dept., Pierre, plans grading and graveling 10 mi. Federal Aid Project 122, 70,000 cu.yd. excav., Deuel Co. $59,763. F. D. Hudgina, state engr.

N. D., Minnewaukon—Benson Co. plans grading 6 mi. road from Ramsey Co. line along south side of Court Lake to Ft. Totten. $30,000. G. A. Gilbertson, co. aud.

Ia., La Porte City—Making plans and takes bids about Jan. 15, paving various streets. $150,000. H. R. Green, Cedar Rapids Savings Bank Bldg., Cedar Rapids, engr.

Tex., Anson—Making plans paving various streets with brick. $100,000. Elrod Eng. Co., 3206 Elm St., Dallas, engrs.

Tex., Ballinger—Runnels Co. making plans graveling and grading 15 mi. Coleman Ballinger Rd., Highway 7A. $80,000. U. Stephens, Ballinger, engr.

Tex., Beaumont — Jefferson Co. making plans grading and concrete surfacing 7.4 mi. State Highway 40 from here to Hardin Co. line, 16 ft., incl., 274 cu.yd. concrete, 25,000 cu.yd. earth excav., 70,643 sq.yd. 6 in. concrete pavement 19,292 lb. reinforcing. $254,088. A. C. Love, co. engr.

Tex., Center—Shelby Co. making plans grading and gravel surfacing 22 mi. State Highway 35 from Joaquin to Timpson, 16 ft., 40,000 cu.yd. roadway and 50,000 cu. yd. borrow excav., 600 cu.yd. concrete, 46,500 cu.yd. gravel etc. $185,224. J. H. Dillon, co. engr.

Tex., Corsicana — Navarro Co. making plans grading and gravel surfacing 7.7 mi. Corsicana Waco Rd., 18 ft. $80,000. McClendon & Purnell, Corsicana, engrs.

Tex., Dallas—Making plans paving 1 mi. Cadiz St. from Houston & Texas Central R.R. tracks to Ervay St. 40 ft., bitulithic or Uvalde rock asphalt. G. D. Fairtrace, city engr.

Tex., Garland—Making plans paving Pub. Sq., bituminous type. Cost to exceed $25,000. Nagle, Witt Rollins Co., Court House, Dallas, engrs.

Tex., Groesbeck—Limestone Co. plans improving 4 mi. Mexia Kosse Rd., 16 ft., crushed rock macadam. $28,800. F. P. Holt, Groesbeck, engr.

Tex., Houston—Soon lets contract gravel surfacing 55 streets. $200,000. J. C. McVey, city engr.

Tex., Jasper—Jasper Co. making plans grading and gravel surfacing 11 mi. State Highway 8, from Buna to Hardin Colline, 16 ft., 110,000 cu.yd. earth and 1,000 cu. yd. structural excav., 800 cu.yd. concrete, 23,100 cu.yd. gravel surfacing, 80,000 lb. reinforcing. $163,138. C. P. Hunter, co. engr.

Tex., Nacogdoches — Nacogdoches Co. plans election before Jan. 1, to vote on $775,000 bond issue for highway improvements. L. Acker, co. engr.

Tex., San Antonio—Had plans prepared paving, widening and straightening South Flores St. between Dolorosa and Nueva Sts. $300,000. D. D. Harrigan, Moore Bldg., engr.

Calif., Oakland—Had plans prepared improving 104th Ave. between East 12th and Sunnyside Aves., 117,759 sq.ft. grading, 361 lin.ft. concrete curb, 1,719 sq.ft. concrete gutter, 84,815 sq.ft. oil macadam pavement, 11,815 sq.ft. concrete walks, etc. W. W. Harmon, city engr.

Calif., San Diego—Had plans prepared improving Horton Ave., Laurel, Curlew, Union, Brant, Kalmia and 3rd Sts., 281,189 sq.ft. 1½ in. asphaltic concrete on 4 in. cement concrete, 285 lin.ft. concrete curb, 2,189 sq.ft. asphalt surfacing for gutters, etc. F. A. Rhodes, city engr.

Quebec—M. Nectkar, ch. engr. Dept. Rds., Quebec, preparing plans graveling roads in following towns and parishes: 3.15 mi. Templeton W., 1.45 mi. Templeton, 3.78 mi. Templeton E., 2.34 mi. Angers, 2.53 mi. St. Ange-Gardien, 3.65 mi. Masson, 2.66 mi. Buckingham S., 5.38 mi. Lochaber W., 1.1 mi. Thurso, 4.45 mi. Gore, 1.42 mi. Papineauville, 2.55 mi. St. Angelique, 3.51 mi. Bon-Secours, 11.1 mi. Grennele, 11.05 mi. Chatham.

Que., Montreal—Plans asphalt pavements on 809 ft. Soulanges St., 33 ft., $7,871; 3,850 ft. St. Charles St., 30 ft., $36,720 1524 ft. Rozel St. from Hibernia to Charlevoix Sts. 33 ft., $14,625, concrete sidewalks on 85 ft. Beaumont St., 5 ft., $431. H. A. Tetreault, ch. pub. wks.

Ont., Elora — Plans paving Main St., probably concrete. $50,000. A. Farrelly, chn. com.

Ont., Lucknow—Plans concrete paving ½ mi. Station Rd. $40,000. A. Johnston, chn. com.

British Columbia — Provincial Government, Victoria, plans hardsurfacing 8 mi. Scott Rd. from New Westminster to Ladner, concrete or bituminous macadam. $200,000. Provincial Government to appropriate ½ of cost, balance to be appropriated by Delta and Surry Municipalities. P. Philip, Dept. Pub. Wks., Victoria, engr.

BIDS DESIRED

New York—Dec. 19, by H. S. Sisson, comr. State Hy. Dept., Albany, improving highways in Albany, Cattaraugus, Monroe, Ontario, Otsego, Steuben and Suffolk Counties; reconstructing highways in Montgomery, Niagara, Steuben, Suffolk and Tioga Counties. J. C. Finch, secy.; adv. this issue.

N. Y., St. George — Dec. 8, by J. A. Lynch, pres. Richmond Boro, Boro Hall, paving from end of Richmond Turnpike at linoleum factory gate to Carteret Ferry. Former bids rejected. Noted Nov. 16.

Pa., Uniontown—Fayette Co. taking bids 2.1 mi. Rush Run Rd., 16 ft. wide, 4,800 ft. 6 in. rein.-con. with curb and 6,288 ft. 4 in. macadam surface on 11 in. Telford. Union Eng. & Constr. Co., 510 Union Trust Bldg., engrs.

Virginia—Dec. 14, at office State Hy. Comn., Richmond, (1) Project F-169-B, Route 3, (a) 9.95 mi. road from Blue Ridge Church to Tinkers Creek, Botetourt Co., (b) 7 bridges over streams on above road; (2) Project F-186-A, Route 12, 6.28 mi. road from Sandy River west in Pittsylvania Co.; (3) Project S-205, Route 1, (a) 9.91 mi. road from Fredericksburg to Spotsylvania Court House, Spotsylvania Co., (b) 2 bridges near Fredericksburg; (4) Project S-215, Route 13, (a) bridge over Appomattox Ri , Prince Edward Co., (b) approaches to above bridge. G. P. Coleman, Richmond, highway comr.; adv. this issue.

West Virginia—Dec. 19, by State Rd. Comn., Charleston, grading 5 mi. Union Rock Camp Rd., Project 3045, Monroe Co., $100,000, J. D. Syndenstricker, Union, engr.; 6 mi. Gilbot-Drennen Rd., Project 3047 B, Nicholas Co., $121,000, County Engr. Summersville; 6 mi. Frost-Sunset Rd., Project 2182 A, Pocahontas Co., $119,000, F. Echols, Marlinton, engr.; 6 mi. Shady Springs-Summers Rd., Project 3102, Raleigh Co., $120,000, County Engr., Beckley; 5.5 mi. Marrowbone-Crum Rd., Project 3188, Wayne Co., $100,000, H. O. Wiles Ceredo, engr.; 8.3 mi. Gassaway-Frametown Rd., Project 3157, Braxton Co., $200,000, R. M. Cavendish, Sutton, engr.; 8.2 mi. Northwestern Turnpike, Project 3160, Doddridge Co., $200,000, L. L. Gibson, West Union, engr.; 3 mi. Dull Creek-King Shoals Rd. Project 3170 B, Clay Co., $60,000, County Engr., Clay; 8 mi. Claysville-Grant Co. line Rd., Project 122 A, Mineral Co., $200,000, County Engr., Keyser; 7 mi. Petersburg-Franklin Rd., Project 3014, Pendleton Co., County Engr., Franklin; 12 mi. Valley Head-Webster Rd., Project 3033, Randolph Co., $250,000, E. G. Elliott, Elkins, engr.; grading and paving with water bound macadam surface 7 mi. Charlestown-Kearneysville Rd. Project 3026, Jefferson Co., $190,000, J. K. Hendricks, Charleston, engr.; grading and gravel surfacing 3 mi. Project 3078 A, Pleasants Co., $78,000, County Engr. St. Marys; 3 mi. River Run-New Martinsville Rd., Project 3082, Wetzel Co., W. H. Ramp, New Martinsville, engr.; all 18 ft. wide.

W. Va., Elkins—Dec. 5, by Comrs. Randolph Co., grading and bituminous macadam paving 1 mi. Harper-Log Lick Rd., 12 ft. $25,000. E. G. Elliott, Elkins, engr.

North Carolina—Dec. 6, by State Hy. Comn., Raleigh, grading and paving 7.93 mi. Project 659, Mecklenburg Co., 38,200 cu.yd. excav., 1,932 ft. 15-30 in. concrete pipe, 100 cu.yd. Class B and 220 cu.yd. Class A concrete, 83,740 sq.yd. concrete or asphaltic paving, etc. $253,000. C. M. Upham, state highway engr.

Streets and Roads (Continued)

North Carolina—Dec. 14, by State Hy. Comn., Raleigh, grading Project 201, Carteret Co.; constructing bridges on Project 138 B, Northampton Co.; Project 256, Lenoir Co. C. M. Upham, state highway engr.; adv. this issue.

Fla., Dade City—Dec. 4, by Comrs. Pasco Co., paving 32 mi. road east and west from here to Gulf, various types. $500,000. J. W. Turner, Lakewood, engr.

Fla., Homestead — Dec. 4, 50,000 sq.ft. sidewalk, 1,405 lin.ft. gutter, 291 lin.ft. curb. $25,000. B. M. Duncan, Homestead, engr.

Ala., Mobile—Dec. 28, by Bd. Comrs. resurfacing 45,868 sq.yd. various streets. W. Smith, city engrs.; adv. this issue.

Tennessee—Dec. 15, by State Dept. Hy., Nashville, improving 5.75 mi. road between Gallatin and point 1 mi. east of Avondale, Federal Aid Project 63, Sumner Co., 18 ft., 14,406 cu.yd. common and 2,778 cu.yd. borrow excav., 10,952 sq.yd. scarifying old macadam, 62,512 sq.yd. 9½ in. hand placed base course "D," alternate bids on 6 in. 8 in. 6 in. plain cement concrete pavement, 2 in. rock asphalt surface and 2 in. bituminous concrete surface on 9½ in. standard hand placed base "D"; 2.85 mi. road between city limits of Knoxville and point 1½ mi. west of Bearden, Federal Aid Project 41, Knox Co., 18 ft., 24,520 cu.yd. common excav., 29,609 sq.yd. 9½ in. hand placed coarse stone base "D," 21,029 sq.yd. 1½ in. rock asphalt surface, alternate bids on 2 in. rock asphalt surface 2 in. bituminous concrete B, both on 9½ in. hand placed base "D" and 6 in. 8 in. 6 in. plain cement concrete pavement, also two 18 ft. span bridge on above project; 9.53 mi. road between Humboldt and Trenton, Federal Aid Project 86, Gibson Co., 16 ft., 102,222 cu.yd. common and 1,170 cu.yd. dry excav., 89,433 sq.yd. 2½ in. bituminous macadam surface course, 92,228 sq.yd. hand placed base course "C" alternate bids for plain cement concrete pavement 6 in. 8 in. 6 in., and 1½ in. rock asphalt, on 9½ in. standard hand placed base "D," bridge over 20 ft. span located Sta. 236-65, one 36 ft. span; 692 ft. bridge over Elk River, Federal Aid Project 25, Giles Co., located at Sta. 762-47, to have twenty 26 ft. 6 in. rein.-con. spans and one 160 ft. steel truss. D. S. McComb, Nashville, ch. engr.

Michigan—Dec. 5, by State Hy. Dept., Lansing, grading and surfacing 5.08 mi. State Trunk Line Rd. 48-8, Machinac Co., 25,387 cu.yd. excav. and 47,673 sq.yd. waterbound macadam. F. F. Rogers, state highway comr.

Ia., Dubuque—Dec. 5, by Supervs. Dubuque Co., grading 18,239 mi. primary road from southeast of Rickardsville to Clayton Co. line, 209,700 cu.yd. earth and 41,944 cu.yd. rock excav., 82,905 ft. of 6 in., 5,520 ft. 8 in. and 1,090 ft. 10 in. tile drain, etc.

Ia., Lisbon—Dec. 7, paving 21,000 yd. various streets, 10,750 ft. curb and gutter. $73,000. C. R. Runkle, clk. H. R. Green, 634 Cedar Rapids Savings Bank Bldg., Cedar Rapids, engr.

Ia., Mt. Ayr—Dec. 12, by Supervs. Ringgold Co., grading 11.87 mi. primary road west, north and east of Kellerton and Union Co. line, south toward here. Iowa Hy. Comn., Ames, engrs.

Minn., Duluth—Dec. 8, by F. W. Borgen, aud. St. Louis Co., subgrading 11,500 ft. Becks Rd., 24 ft., between Gary St. and State Rd. 2, Co. Job N5,2222, concrete and brick culverts. $40,000. R. W. Acton, Courthouse, engr.

Minn., Duluth—Dec. 22, by F. W. Borgen, aud. St. Louis Co., graveling 25 mi. road from Tower to Ely, 24 ft. $60,000. Former bids rejected. R. W. Acton, Courthouse, co. engr. Noted Oct. 26.

Kan., Columbus — Dec. 15, by Comrs. Cherokee Co., paving 4.634 mi. Spring Valley Rd., Sects. A and B, Federal Aid Project 142, 18 ft., concrete. L. Noftzeger, co. engr. Noted Nov. 16.

Kan., Mound City—Dec. 23, (change of date) by Comrs. Linn Co. grading, etc., 10.473 mi. La Cygne-Pleasanton-Prescott Rd., Project 109 C, 27 ft., $55,000; 7.28 mi. La Cygne Pleasanton-Prescott Rd., Project 146 A, 30 ft., $75,000. Kansas Eng. Co., Topeka, engrs. Noted Nov. 23.

Missouri—Dec. 8, by State Hy. Dept. at div. office Montgomery City, grading 4.062 mi. road from McKittrick northwardly, 12 ft., Federal Aid Project 141, Montgomery Co. B. H. Piepmeier, state highway engr. Noted Oct. 26.

Mo., Maplewood—Dec. 6, by G. Komar, city clk., City Hall, and St. Louis Co., (Clayton) constructing 3,100 ft. Greenwood Blvd. from Big Bend Rd. to Canterbury Ave., 30 ft. $40,000. A. H. Beard, 616 Title Guaranty Bldg., St. Louis, engr. Noted Nov. 2.

Tex., Beaumont—Dec. 7, by J. B. Peek, judge Jefferson Co., grading and paving 7.35 mi. State Highway 40, Federal Aid Project 349, 16 ft., (a) rein.-con., (b) Bituminous macadam, 5,845 cu.yd. concrete, 20,185 cu.yd. roadway and 17,715 cu.yd. earth excav., $317,088; 6.81 mi. State Highway 3 from Liberty Co. line east, 18 ft., (a) 68,064 sq.yd. bituminous surfacing, 71,664 sq.yd. concrete base, (b) 71,664 sq.yd. rein.-con. pavement, 179,674 lb. reinforcing steel, etc., $335,000; 8.72 mi. State Highway 3 from Amelia west, 18 ft., (a) 91,820 sq.yd. rein.-con. pavement, 229,987 lb. reinforcing, (b) 81,105 sq.yd. bituminous, 91,820 sq.yd. concrete base; etc. $397,500. A. C. Love, co. engr.

Tex., Corsicana—Nov. 13, by A. P. Mays, judge Navarro Co., grading and paving, 1 mi. road through Richland Creek Bottom in Winkler Rd. Dist. 15, 15 ft., repairing bridge and resetting pier on 60 ft. steel span over Richland Creek, 1,000 cu.yd. road and 3,000 cu.yd. ditch excav., 8,500 sq.yd. concrete pavement, 24,000 lb. reinforcing, to G. A. Duren, Sumpter Bldg., Dallas, $34,900.

Colorado—Dec. 4, by State Hy. Comn., Denver, grading 11.787 mi. Ocean to Ocean Highway, State Aid Project 694, Park Co., 18 ft., clearing 14 acres, 14,700 cu.yd. borrow, 66,500 lb. structural and 27,500 lb. reinforcing steel, etc., $58,114; gravel surfacing 3.89 mi. Santa Fe Trail, Federal Aid Project 218-B, Bent Co., 18 ft., 7,800 cu.yd. overhaul, 36,860 sq.yd. gravel surfacing, 1,054 cu.yd. concrete, 25,400 lb. reinforcing, 10,600 cu.yd. earth excav., etc., $50,929; 11 timber bridges on State Roads 32 and 9-S, Cheyenne Co., $21,385. L. D. Blauvelt, State Capitol Bldg., Denver, highway engr.

Calif., San Diego—See "Miscellaneous."

Calif., San Francisco—Dec. 6, by Bd. Pub. Wks., improving north ½ Sloat Blvd. between 19th and 35th Aves., 1,500 cu.yd. excav., 3,300 cu.yd. fill, 152,270 sq.ft. 1½ in. asphaltic concrete on 6 in. concrete, 9,950 lin.ft. 2 x 8 in. r. w. headers, 1,400 sq.ft. basalt block pavement on concrete foundation, 370 cu.yd. gravel surface, for city and San Francisco Co. $52,000, to be paid from county road funds. M. M. O'Shaughnessy, city engr. Noted Aug. 31.

Quebec—Dec. 30, by J. L. Boulanger, deputy minister of highways, Quebec, graveling 18.36 mi. Levis-Sherbrooke Highway, in parishes of St. Nicolas, St. Redemptour, St. Ettiene, St. Gilles, St. Agapit and Shipton. M. Necktar, ch. engr.

Quebec — Dec. 30, by J. L. Boulanger, deputy minister of highways, Quebec, graveling 41.77 mi. Rimouski-Matapedia Highway, through St. Florence, Restigouche, Assemtequgau and St. Laurent de Matapedia Twps. M. Nectkar, Dept. Rds., engr.

BIDS RECEIVED

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., opened bids Nov. 22, repaving (1) East 31st St., granite block on concrete (2) West 74th St., sheet asphalt, restoring roadway foundation curb and sidewalk on (3) West 141st St., widening and repaving (4) Canal St., granite block, from Casper Helbock, 633 Wales Ave., (1) $13,665; P. J. Kearns Contg. Co., 2306 Creston Ave., (1) $15,143 (3) $2,932 (4) $12,320; Burnside Contg. Co., 270 Burnside Ave., (1) $16,178 (3) $2,738 (4) $13,132; Brusstar Constr. Co., Harlem River and 150th St., (2) $2,799; Asphalt Constr. Co., 208 Bway., (2) $3,045; Sicilian Asphalt Paving Co., 41 Park Row, (2) $3,610. Noted Nov. 16.

Fla., Pensacola—Escambia Co. paving 10 mi. road from Pensacola to Roberts, 16 ft., from C. H. Turner Constr. Co., Pensacola, using 6 in. plain cement concrete $250,808; S. S. Fulgham, Pensacola, $270,265; J. F. Morgan Paving Co., Jacksonville, (street address not available) bituminous macadam $375,734, sheet asphalt $320,454.

Fla., Tampa—Hillsborough Co. paving (1) 4.78 mi. Seffner-Thonotosassa Rd. (2) 14.74 mi. Hopewell-Tampa Rd. (3) 6.06 mi. Lake Magdalene Rd. (4) 6.75 mi. Temple Terraces (5) 6.65 mi. Midway Rd. (6) 12.23 mi. River View Brick Rd. (7) 14.74 mi. Interbay Rd, (8) 2.02 mi. Waters Ave. (9) 3.56 mi. Armenia Ave. (10) 15.13 mi. Citrus Park Rd. (11) 2.35 mi. Wimaumo Rd. (12) 17.11 mi. Plant City-Picnic Rd. (13) 28.02 mi. Bayshore Rd. to Manatee Co. line (14) 11.16 mi. Lithia Rd. (15) 10.91 mi. Plant City-Thonotosassa Rd. with (a) brick (b) asphalt block (c) 2½ in. sheet asphalt (d) 5 in. rock (e) relaid brick (f) new brick, from Mickler & McLeod, Stovall Bldg., (1a) $2.32 per sq.yd. (5a) $2.41; Warren Bros. & Carroll, Tampa, (street address not available), (1b) $1.95 (5b) $2 (11b) $1.925 (12b) $2.10 (13b) $1.905 (14b) $1.98; Dixon Contg. Co., Real Estate Bldg., Savannah, Ga., (1c) $1.20 (1d) $0.96 (12c) $1.31 (12d) $0.99; W. H. Kendrick, 104 B Melville Ave., (2a) $2.40 (6e) $0.40 (6f) $2.35 (11a) $2.35 (12a) $2.45 (13a) $2.25 (14a) $2.35 (15a) $2.40; Cone Bros., Tampa, (street address not available), (2b) $1.95 (3b) $1.98 (7b) $1.97 (9b) $1.90; W P McDonald Constr. Co., Orlando, (2c) $1.29 (2d) $0.80 (4c) $1.34 (4d) $0.86 (5c) $1.30 (5d) $0.91 (7c) $1.33 (7d) $0.91 (11c) $1.46 (11d) $0.80; J. G. Yeates Paving Co., Tampa (street address not available), (3a) $2.27 (4a) $2.25 (6e) $0.60 (6f) $2.40 (7a) $2.26 (8a) $2.25 (9a) $2.26 (10a) $2.58; J. F. Morgan Paving Co., 514 Graham Bldg., Jacksonville, (3c) $1.38 (3d) $0.82 (8c) $1.31 (8d) $0.77 (9c) $1.31 (9d) $0.80 (10c) $1.33 (10d) $0.80 (13c) $1.34 (13d) $0.81 (14c) $1.33 (14d) $0.82 (15c) $1.40 (15d) $0.86; Bruen & Sullivan, Tampa, (street address not available), (4b) $1.89 (8b) $1.90 (10b) $1.92 (15b) $1.94. Noted Oct. 26.

Tex., Marlin—Falls Co. grading, gravel surfacing and bridging 9.22 mi. State Highway 44, Federal Aid Project 297, 16 ft., from Hannah Constr. Co., Box 994, Waco, $80,354; P. M. Skinner, Southwestern Life Bldg., Dallas, $80,654; Kuykendall & Shelton, Temple, $85,458. Noted Nov. 9.

Wash., Seattle — Opened bids Nov. 17, paving and trestle work on Railroad Ave., 7,750 sq.yd. asphaltic concrete, 43,000 lin.ft. creosoted piling, 2,000 ft. old piling, 625,000 ft. trestle lumber, from Hauge & Espaland, 1813 North 50th St., $96,185; Jahn & Bressi, Thompson Block, $97,176; Standard Constr. Co., Seaboard Bldg., $99,163.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to Grimm Constr. Co., 170 McKinley Ave., grading, curbing and flagging Bay Ridge Ave., etc., $4,366, Clinton Pl. $1,289, Rutland Rd. $5,393, 58th St. $1,100; to F. Persicano, 350 Fulton St., Ave. H $2,253, 77th St., $802; to C. Gallagher, 745 Dean St., Kings Highway $3,426; to Castle Bros. Inc., Johnson Pl., East 19th St. $3,435; to G. M. Mandatta, 129 29th St., 76th St. $5,256; to Caponi Contg. Co., 1320 25th St., Narrows Ave. $15,445; to L. Mangeri, 190 31st St., 88th St. $7,351; to Sicilian Asphalt Paving Co., 41 Park Row, New York, paving Kingston Ave. $10,792, Midwood Ave. $13,080, Newport St. $5,191, grading and paving Snediker Ave. $5,382, Montgomery St. $7,919, repaving Rockaway Ave. $19,192; to Borough Asphalt Co., 1301 Metropolitan Ave., East 12th St. $8,354; to Cranford Co., 52 9th St., East 37th St. $4,040, East 8th St. $8,094, East 8th St. $15,663, East 7th St. $7,548, Ave. R $3,892, grading and paving Ave. S $2,982; to Cleveland Trinidad Paving Co., Flushing, New Utrecht Ave. $6,291; to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., grading and paving 86th St. $31,060, 83rd St. $6,824, repaving Court St. etc., $10,531, Franklin Ave. $6,020. Noted Oct. 26 and Nov. 2.

W. Va., Hamlin—Lincoln Co. grading 3½ mi. Harts-Logan Co. line Rd., 18 ft., to Hunt-Forbes Constr. Co., Ashland, Ky., $40,554.

W. Va., Winfield — Putnam Co. paving with bituminous macadam 2 mi. McLean Turnpike, Project 2170, to J. L. McDermott & Son, Pt. Pleasant, $43,755.

North Carolina—State Hy. Comn., Raleigh, grading and paving in Raeford, Hoke Co., Project 546, 8,900 sq.yd. sheet asphalt on concrete, 3,000 cu.yd. excav., etc., to Dawkins Constr. Co., Greenwood Bldg., Norfolk, Va., $25,408.

S. C., St. George—Dorchester Co., constructing 4 mi. road between Dorange and Reevesville, to J. B. Johnston, St. George, $17,117; bridge on above road, to Funderbunk Constr. Co., Orangeburg, $6,380. Noted Nov. 2.

Fla., Tampa—Paving Rome Ave., 2½ in. asphalt brick, granite curb, to J. M. Yeates Co., Tampa, $27,521.

Miss., Pascougoula—Bd. Supervs. Jackson Co. at office of Chancery clk., 8.44 mi. Federal Aid Project 126, Sect. A, from Moss Point to Alabama state line, 18 ft., rein.-con., to S. A. Gano, 715 Maison Blanche Bldg., New Orleans, La., $269,588. Noted Nov. 26.

Louisiana—State Hy. Dept., Baton Rouge, 7 mi. Monroe-Jonesboro Rd., Ouachita Parish, to Lambert Constr. Co., Alexandria, $61,000.

Kentucky—State Hy. Dept., Frankfort, surfacing with rock asphalt 0.415 mi. Pineville-Middlesboro Rd., State Project 5, Sect. C, Bell Co., to Davis & Graham, Pineville, $17,507. Noted Nov. 16.

Streets and Roads (Continued)

Michigan — State Hy. Dept., Lansing, grading and surfacing 4.724 mi. State Trunk Line Rd. 15-12, Sect. A, Menominee Co., to Menominee Co. Rd. Comn., Menominee, incl. 36,418 cu.yd. excav. $0.50, 59 cu.yd. 1:2:4 concrete $17, 44.3 cu.yd. 1:3:6 concrete $15, 44,191 sq.yd. stone-gravel surface $0.67, total $53,863. Noted Nov. 2.

Wis., Milwaukee—Grading 122,000 cu.yd. earth north of and adjacent to harbor entrance, to R. Kucharski, 796 Rogers St., $0.30 and $0.33 per cu.yd. Noted Nov. 9.

Ia., Greenfield—Comrs. Adair Co., grading 5.4 mi. Greenfield-Fontanelli Rd., Federal Aid Project 173, Sect. B, to J. H. Miller & Son, Corydon, 129,055 cu.yd. earth excav. $0.249 per cu.yd.; Fitzgerald & Hogan, Tipton, 16,045 ft. 6 in. tile $0.135 per ft., 1,250 ft. 10 in. $0.276, 200 ft. 12 in. $0.345 per ft. Noted Nov. 9.

Ia., Washington—Washington Co. grading 5.083 mi. primary road from Keokuk Co. line east, to N. C. Nelson, Eagle Grove, 94,104 cu.yd. excav. $0.244 per cu.yd.

Minn., Crookston — Polk Co., to E. F. Reamer, Hibbing, 8.7 mi. State Project 30-01, Federal Aid Project 271, between Winger and Erskine, 94,000 cu.yd. excav., $25,298; 2.1 mi. Federal Aid Project 292, $21,052; 18.6 mi. State Project 8-06, Federal Aid Project 278, between Erskine and Lengby, 296,000 cu.yd. excav., portable and monolithic culverts, one 20 ft. concrete span and one 23 ft. concrete deck girder span bridge, $82,808; to C. A. Pogue, 4th and Winnipeg Sts., Grand Rapids, 14.2 mi. State Project 6-06, Federal Aid Project 293, between Crookston and Euclid, 190,270 cu.yd. excav., portable and monolithic culverts, $42,955. Noted Oct. 5.

Minn., Duluth—St. Louis Co., to Butler Bros. Building Co., Hamm Bldg., St. Paul, 5.42 mi. State Job 2208, from Hibbing to Chisholm, 51,773 sq.yd. concrete; 4.97 mi. State Job 2209, from Chisholm to Buhl, 52,688 sq.yd. concrete; 7.59 mi. State Job 2210, from Buhl to Mountain Iron, 81,002 sq.yd. concrete; 2.61 mi. State Job 2211, from Mountain Iron to Virginia, 27,970 sq.yd. concrete; 3.62 mi. State Job 2212, from Virginia to Gilbert, 39,346 sq.yd. concrete; 6.93 mi. State Job 2213, from Gilbert to Biwabik, 74,375 sq.yd. concrete; 5.09 mi. State Job 2214, from Biwabik to Aurora, 54,837 sq.yd. concrete, total cost of above projects $985,695; 1.17 mi. Thompson Hill Rd., Co. Job 2153, from here to Carlton Co. line, 13,971 sq.yd. concrete, $36,920; 4.82 mi. State Rd. 2, Federal Aid Project 171, from here to Carlton Co. line, 50,975 sq.yd. concrete, $133,795; 7.9 mi. State Rd. 3, Federal Aid Project 201, from here to Lake Co. line, 81,621 sq.yd. concrete, $213,623. Noted Oct. 19.

Wyo., Casper—Paving 25,600 yd. Railroad Ave., Kimball and Beech Sts., 2 in. Warrenite bitulithic with seal coat on 3 in. bituminous concrete, 6,000 cu.yd. excav., 7,908 lin.ft. concrete curb, etc., to Warren Constr. Co., Casper, paving $2.15 per sq.yd., excav. $0.98 per cu.yd., total $78,776. Noted Oct. 26.

Missouri—State Hy. Dept. at div. office Ironton, 11.26 mi. road from Ironton to Rotosi, Federal Aid Project 107 A, Iron Co., 7,650 lin.ft. grading, 13,724 sq.yd. bituminous macadam on broken stone base, etc. to Campbell Equipment Co., Minneapolis, Minn. (street address not available) $57,128. Noted Nov. 16.

Missouri—State Hy. Dept., Jefferson City, to L. Renzel, Jackson, 3.41 mi. road on Kings Highway, State Project Route 25, Sect. 22, Cape Girardeau Co., $1,318; 4.928 mi. road on King Highway, State Project Route 25, Sec. 20, Cape Girardeau Co., $20,953; 4.377 mi. road on Kings Highway, State Project Route 25, Sect. 21, Cape Girardeau Co., $13,520. Noted Nov. 16.

Missouri—State Hy. Dept., at div. office Platte City, 13.687 mi. road on Jefferson Highway, Federal Aid Project 96, Platte Co. 90,773 cu.yd. earth and 4,300 cu.yd. rock excav., 13,649 cu.yd. borrow, etc. to Diemer Williamson Constr. Co., Brookfield, $54,785. Noted Nov. 16.

Tex., Groesbeck—Paving 6 blocks, 11,860 sq.yd. 2¼ in. vertical fibre brick on 5 in. concrete 2,450 lin.ft. curb and gutter, to Janes Constr. Co., Southwestern Life Bldg., Dallas, $44,000.

Tex., Lufkin — Angelina Co. grading, gravel surfacing and bridging 13.54 mi. Highway 7 between Huntington and Zavalla, 16 ft., to J. S. Moore & Sons, Lufkin, $160,356. Noted Nov. 16.

Tex., Orange—Orange Co. 5 mi. concrete road, 18 ft., to F. P. McElrath, Corsicana, $2.50 per sq.yd. 6 in. concrete.

Tex., Tahoka—For 20,333 sq.yd. brick paving on natural base, and 3,846 lin.ft. curb and gutter, to Plains Paving Co., Amer. Natl. Bank, Wichita Falls, $120,000. Noted Aug. 10.

Okla., Marietta—For 25,100 sq.yd. rock asphalt pavement and 16,200 ft. curb and gutter, to H. Kidd, Hutchinson, Kan., $138,000. Noted Oct. 26.

Wash., Ephrata—Grant Co. grading and surfacing 2 mi. road from Vantage Ferry to Beverly, 14,000 cu.yd. earth, 8,000 cu.yd. loose and 9,000 cu.yd. solid rock excav., etc., to Rajotte-Winters, Realty Bldg., Spokane, $39,650. Engrs. est. $40,190.

Wash., Seattle — Concrete paving Alki Ave. et al, to Fiorito Bros., 3950 6th Ave. N. W., $112,309, engrs. est. $119,831; Taylor Ave., to J. L. Smith, Pioneer Bldg., $32,769. Noted Nov. 23.

Oregon—State Hy. Comn., Salem, clearing, grading and surfacing Pendleton-Despani-Gulch Highway, Umatilla Co., to Warren Constr. Co., Craig Rd., Portland, 244 ft. 18 in. corrugated galvanized pipe $2.20, 220 ft. 24 in. $3, 32 ft. 36 in. $6, 6 cu.yd. Class B concrete $30, 38.5 cu.yd. Class C $25, 7,450 cu.yd. crushed gravel surfacing $1.85, etc., total $27,087.

Calif., Bakersfield—Improving California Ave., to Federal Constr. Co., Call Bldg., San Francisco, $49,745. Noted Nov. 23.

Calif., Stockton — Supervs. San Joaquin Co., paving with oil macadam Locust Ave. Rd. and Netter Rd., to Isey & Holden, Lodi, $26,087 and $10,085 respectively. Noted Nov. 23.

Que., Montreal—Asphalt pavements on 1,125 ft. Christopher Columbus St. from Everett to Hanatoux Sts., 50 ft., to B. Brault Ltd., 2855 Rosemount Blvd., $26,915.

Industrial Works

PROPOSED WORK

N. H., Manchester—Carpenter Hotel Co. had plans prepared by H. W. Rhodes, archt., 574 A Congress St., Portland, Me., 1 story, 70 x 160 ft. garage, brick. $40,000.

Mass., Clinton—Roubaix Mills, Inc., 792 Main St., having plans prepared by Lockwood, Greene & Co., archts. and engrs., 24 Federal St., Boston, and soon take bids 1 story dyehouse, brick and steel, plain foundation. $50,000.

R. I., Woonsocket—Rhode Island Knitting Co., Jeffers St., soon lets contract 2 story, 40 x 100 ft. mill addition, rein.-con. and brick, plain foundation, Jeffers St. $50,000. Noted Nov. 16.

Conn., Bridgeport—A. V. Langenegger, 2190 Park Ave., having plans prepared by Fletcher-Thompson, Inc., archts. and engrs., 542 Fairfield Ave., 3 story, U-shaped factory, brick and heavy timber, Federal St. $150,000.

Conn., Hartford — Hartford City Gas Light Co., 565 Main St., plans large addition to gas generating plant. Architect not selected.

Conn., New Haven—Connecticut Co., 127 Church St., plans 2 story power plant addition. $150,000. Architect not announced.

Conn., Waterbury—Brass City Machine & Tool Wks., 29 Pearl St., soon lets contract 2 story and basement factory addition, brick and timber, plain foundation. $40,000.

Conn., Westport — Lees Mfg. Co., 320 Bway., New York City, having plans prepared by Fletcher-Thompson, Inc., archts. and engrs., 542 Fairfield Ave., Bridgeport, 3 story, 50 x 150 ft. factory brick and timber, here. $75,000.

N. Y., Buffalo—Citizens Commercial Safe Deposit Co., Ellicott Sq., plans storage building, William St. $75,000.

N. Y., Buffalo—Kittinger Bros., 1893 Elmwood Ave., plans addition to factory, brick. $40,000. Architect not announced.

N. Y., New York—Harper Bros., 333 Pearl St., soon receive bids 5 story publishing plant, brick and steel, plain foundation, Eas. 33rd St. Warren & Wetmore, 16 East 47th St., archts. and engrs. $800,000.

N. Y., Parmas—Cooper Electric Corp., Hilton, plans lighting and power plant, here. $50,000.

Pa. Altoona—W. J. Lee, 1303 7th Ave., plans 3 story and basement, 100 x 120 ft. rein.-con., brick and steel wholesale house, 7th Ave. and 13th St. $150,000. Architect not selected.

Pa., Erie — Northwestern Motors Co., 21st and State Sts., plans to rebuild brick factory recently destroyed by fire. $200,000.

Pa., Nanticoke—Nanticoke Garage Co., having plans prepared by G. T. Price, archt., 409 Miller Bldg., Scranton, 3 story, 46 x 100 ft. brick, stone and tile garage, Spring St. $65,000.

Pa., Kendall (Coraopolis P. O.)—Duquesne Steel Fdry. Co., Farmers Bank Bldg., Pittsburgh, plans to rebuild major portion of foundry destroyed by fire, here, $300,000.

Pa., Pittsburgh—Pure Oil Co., Chestnut and High Sts., Columbus, O., having plans prepared 1 story and basement, 80 x 150 ft. rein.-con., brick and steel garage. Private plans.

Pa., Tullytown—Megargee Paper Mills, 16 South 5th St., Phila., plans plant near here. Architect not selected.

Md., Baltimore—Air Reduction Co., 342 Madison Ave., New York City, having plans prepared by Francisco & Jacobus, engrs. and archts., 511 5th Ave., New York City, acetylene plant, brick and concrete, Fayette St., here. $150,000.

N. C., Lillington—Cape Fear Gravel Pits, Inc., plans gravel production plant also plant for the manufacture of concrete building blocks and tile. $250,000. C. W. Lacy, pres.

Miss., Magee—Plans electric light and waterworks improvements. $25,000. Swanson-McGraw, Inc., 704 United Fruit Bldg., New Orleans, La., consult. engrs.

Ky., Paducah—Paducah Ice. Co. plans 2 additional units to ice manufacturing plant, $70,000. Architect not announced.

Mich., Lansing—United Produce Co., c/o W. S. Holmes, archt., Tussing Bldg., had sketches made for 4 story and basement, 84 x 280 ft. cold storage plant, rein.-con. and steel, plain foundation, Kalamazoo St. $200,000.

Mich., St. Joseph—Whitcomb Hotel having plans prepared by Cahill & Douglas, engrs., 217 West Water St., Milwaukee, Wis., power plant and brick stack.

Wis., Hustisford—J. Hurley, Hartland, plans 2 story, 75 x 150 ft., dairy, brick and rein.-con., plain foundation, here. $50,000. Architect not selected.

Wis., Milwaukee—Welch Investment Co., 105 Wells St., having plans prepared by H. C. Hengels, archt., 445 Milwaukee St., 2 story, 75 x 150 ft. addition to garage, brick and concrete, plain foundation. $50,000.

Wis., Wisconsin Rapids—Prentiss-Wabers Co. plans 2 story, 50 x 110 ft. factory, brick and steel, plain foundation. $50,000. Architect not selected.

Wis., Sheboygan—Vulcan Last Co., Crandon, plans 2 story, 75 x 125 ft., brick, rein.-con. and steel factory, plain foundation, here. Architect not selected.

Mo., St. Louis—G. O. Langenberg, archt., 4045 Forest Park Blvd., soon lets contract 3 story and basement, 150 x 200 ft., furnace factory, rein.-con. and brick, plain foundation, Bircher St. near Euclid St., for Haynes-Langenberg Mfg. Co., 4045-47 Forest Park Blvd. C. W. Morton, 1339 Syndicate Trust Bldg., engr. Noted Nov. 16.

Ark., Cotter—Dixie Power Co., Batesville, opens bids about Jan. 1, hydro electric plants with dams on White, Buffalo and Big North Fork Rivers, here. $15,000,000.

Tex., Canton—See "Waterworks".

Tex., McLean—See "Waterworks".

Ore., Haines — Commercial Creamery plans to rebuild plant destroyed by fire. $60,000-$75,000. A. H. Goodhue, pres.

Calif., San Francisco — O'Brien Bros., Inc., archts., 240 Montgomery St., preparing plans five 1 story, concrete garages and show rooms, various sections of city. $100,000. Owner's name withheld.

Calif., San Francisco—Reinhart Lumber & Planing Mill Co., 17th and Kansas Sts., has 5 acres in southern section of city and plans planing mill.

Calif., San Francisco — San Francisco Chronicle, Chronicle Bldg., plans newspaper plant, loft and office building, 5th and Mission Sts. M. D. De Young, publisher. Architect not announced.

Calif., San Francisco—State Bd. Harbor Comrs., Ferry Bldg., take bids in about 4 months, 6 story, 122 x 812 ft., rein.-con. warehouse, China Basin. $2,000,000. F. G. White Ferry Bldg. ch. engr. Foundation work (almost completed) was let to Healy-Tibbitts Constr. Co., 9 Main St., $761,343.

Calif., San Francisco—De Boom Paint Co., 560 Clay St., had plans prepared by H. A. Minton, archt., Monadnock Bldg., 2 story, rein.-con. shop and loft building, Commercial St. near Montgomery St.

Que., Outremont—Perrault & Gadbois, archts., Park Ave., Montreal, will take bids Dec. 6, for 4 story, and basement, 100 x 157

Industrial Works (Continued)

ft. garage, Bernard and De L'Epee Aves. Owner's name withheld.

Ont., Ford—Ford Motor Co. of Canada, had plans prepared by A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., 1 story, 22 ft. high, 570 x 1,088 ft. and 2 story, 44 ft. high 65 x 1,088 ft. machine shops, rein.-con., brick and steel, plain foundations.

Ont., Welland—Welland Cotton Co. having plans prepared 1 and 2 story, 100 x 350 ft. rein.-con. mill, Bergar St. $250,000 Private plans.

B. C., Vancouver—Cranes Shipyards, Ltd., North Vancouver, plans to remove old plant and build new ship repair plant and marine ways, Georgia and Denman Sts, $40,000. Private plans.

BIDS DESIRED

R. I., Providence—G. Wolf, archt., 88 Althea St., taking bids 2 story, 50 x 120 ft. garage and service station, brick and rein.-con., plain foundation, Pearl St., for Goldberger & Brody, c/o architect. $55,000.

Pa., Johnstown—E. Hahn Packing Co., Hickory St., taking bids 3 story and basement, 48 x 108 ft. and 24 x 112 ft. concrete and brick addition to plant, Hickory St. $65,000. Private plans.

Pa., New Castle—Natl. Radiator Co., Central Ave. and Ohio St., Johnstown, will build 1 story, 30 x 365 ft. concrete, brick and steel addition to foundry. Work will be done by separate contracts. J. E. Adams, Nemo Bldg., Johnstown, engr.

Pa., Phila.—P. Dandolfi, 41st and Poplar Sts., taking bids 2 story, 50 x 200 ft. brick and steel garage, plain foundation, Wyoming and Muscher Sts. $75,000. Neubauer & Supowitz, 929 Chestnut St., archt.

Pa., Pittsburgh—Auto Truck Equipment Co., 7511 Penn Ave., and A. G. Wickersham, archt., 517 McClure Ave., Homestead, taking bids 1 story and basement, 31 x 99 ft. concrete and brick shop 7505 Penn Ave.

Pa., Shamokin—A. W. Gortner & Sons, taking bids 2 story and basement, 49 x 125 ft. rein.-con., brick and steel warehouse, plain foundation. $75,000. W. H. Lee, 32 South 17th St., Phila., archt.

Wis., Cedarburg—Hansen Canning Machine Co., Port Washington, taking bids 1 story, 112 x 112 ft., concrete and steel factory, plain foundation. $40,000. Private plans.

Wis., Madison—Valvoline Oil Co., 815 East Main St., taking bids two 40 x 50 ft. filling stations incl. oil storage tanks, pumps, warehouse, brick, Lakeside St. $40,000. A. D. Conover, Tenney Bldg., archt.

Wis., Milwaukee—Leiser & Holst, archts., 105 Wells St., taking bids 1 story and basement, 45 x 115 ft., tile and steel factory addition, plain foundation, for Milwaukee Gas Specialty Co., 2017 Clybourn St. $40,000.

Calif., Isleton—J. F. Butts Co., 2 Pine St., San Francisco, receiving bids 1 story, 100 x 260 ft. cannery, 80 x 120 ft. warehouse, 36 x 200 ft. wharf, 30 x 70 ft. can house, boiler room building, 30 cottages and apartment house, here. $150,000. W. J. Miller, 417 Market St., San Francisco, archt.

Calif., Newman—Natl. Ice Cream Co., 371 Guerrero St., San Francisco, receiving bids 2 story, rein.-con. and steel plant. Wieland-Mazurette-Wieland, 1002 H St., Modesto, archts. Noted Feb. 2.

Calif., San Francisco — A. S. Bugbee, archt., 26 Montgomery St., receiving bids 2½ story and basement, rein.-con. garage, Sacramento St. near Polk St., for L. R. Lurie, Mills Bldg. $54,000. Noted Nov. 16.

Calif., Tracy—General Milk Co. of California will build rein.-con. and steel plant, by separate contracts. $75,000. Metal lath, to General Fireproofing Co., 20 Beale St., San Francisco; structural steel to Union Constr. Co., Key Route Basin, Oakland; pipe and fittings to General Mchy. Co., 39 Stevenson St., San Francisco.

CONTRACTS AWARDED

Mass, Boston—Boston Flower Exchange, Inc., 1 Winthrop Sq., 2 story, 135 x 200 ft. garage and mercantile building, brick, wood pile foundation, 541 Tremont St., to L. P. Soule & Son Co., 80 Boylston St., $80,000.

Mass., Boston—Handschumacher & Co., Inc., 44 North St., 3 story packing plant addition, rein.-con., plain foundation, North St., to Scully Co., 118 1st St. Cambridge. Archts. est. $125,000.

Mass., Cambridge—Cambridge Motor Co., 195 Massachusetts Ave., 2 story and basement, 55 x 200 ft. with 62 x 66 ft. ell, garage and service station, rein.-con., steel and brick, plain foundation, Massachusetts Ave. and Front St., to J. F. Smith Constr. Co., 99 Boylston St., Watertown (Boston P. O.). Archts. est. $150,000.

Mass. Fall River—Standard Oil Co., 26 Bway., New York City, 61 x 83 ft. garage, 20 x 20 ft. pump house, 30 x 51 ft. warehouse, all 1 story, rein.-con., Slade St., here to S. C. Sperry Co., 300 Main St., Cambridge Archts. est. $50,000.

Mass., Quincy (Boston P. O.)—Brooks-Skinner Co., Inc., Quincy Point, will build 1 story, 100 x 242 ft. factory, brick and timber, plain foundation, at plant by day labor. $50,000. Private plans.

Mass., Spencer—Spencer Gas Co., 110 Main St., will alter and build 1 story plant addition, will include raising present building 15 ft., etc., by day labor. $40,000-$50,000. W. M. Russell, 77 Franklin St., Boston, engr.

Mass., Worcester—Parker Wire Goods Co., 18 Grafton St., 1 story, 14 ft. high, 120 x 130 ft. factory, brick and concrete, plain foundation, Washington St. to E. J. Cross Co., 82 Foster St. Archts. est. $75,000. Noted Nov. 9.

Mass., Worcester—Waldorf System Inc., 169 High St., Boston, 1 story, 16 ft. high, 65 x 125 ft., brick and concrete, plain foundation Arch and Summer Sts., here to Keefe Bros. Co. 98 Front St. Archts. est. $40,000. Noted Sept. 28.

Conn., Hartford—Hartford "Courant," 64 State St., 2 story, brick and steel addition to plant, plain foundation, to Porteus-Walker Co., 13 Forest St. Archts. est. $50,000. Noted Nov. 16.

N. Y., Brooklyn—M. Galtabiano, c/o T. Goldstone, archt. and engr., 50 Graham Ave., 1 story, 100 x 100 ft., brick, steel and concrete garage, plain foundation, Decatur St. and Wykoff Ave. by day labor. $40,000.

N. Y., Buffalo—Island Warehouse Co., Ganson St. and Ship Canal, 10 story, 9 x 100 x 268 ft. flour mill, steel and rein.-con., to Fegles Constr. Co., 706 1st Ave. N., Minneapolis, Minn. Archts. est. $500,000. Noted Nov. 23.

N. Y., New York—Empire State Ice Co., 76 West Monroe St., Chicago, general contract 3 story, 110 x 136 ft., brick, steel and concrete plant, 161st St. and Grant Ave., here, to Niewenhous Co., Inc., 316 East 161st St., $135,000.

N. J., Hammonton—Littlefield Ice Co., 3 story, ice and storage plant, rein.-con., brick and steel, plain foundation, to W. F. Koller, Otis Bldg., Phila., $50,000.

Pa., Johnstown—W. Steele & Sons Co., archts., 1600 Arch St., Phila., 5 story and basement, 133 x 242 ft. rein.-con. and brick warehouse, Maple Ave., to Turner Concrete Steel Co., 1713 Sansom St., Phila., for Johnstown Terminal Warehouse Co. Archts. est. $600,000. Noted Nov. 2.

Pa., Phila.—Amer. Ice Co., 6th and Arch Sts., and C. L. Weir, engr., 41 East 42nd St., New York City, 2 story, 61 x 80 ft. and 1 story, 21 x 80 ft. rein.-con., brick and steel plant, plain foundation, to Levering & Garrigues, 552 West 23rd St., New York City. Noted Nov. 16.

Pa., Phila.—Amer. Stores Co., Noble and York Sts., 6 story, 100 x 400 ft. rein.-con. and brick warehouse, plain foundation, 31st and Master Sts., to A. B. Kister, 1204 Chancellor St. $500,000.

Pa., Phila.—General Electric Co., Witherspoon Bldg., 6 story addition to factory, 7th and Willow Sts., to H. E. Baton, 1713 Sansom St., $80,000. Noted Sept. 28.

Pa., Phila.—A. G. Zimmerman, archt., 85 9th Ave., New York City, 8 story, 150 x 257 ft. rein.-con., brick and steel bakery, plain foundation, 12th St. and Glenwood Ave., to J. Griffith Sons Co., 112 West Adams St., Chicago, Ill., for Natl. Biscuit Co., 10th Ave. and 15th St., New York City. $1,000,000. Noted Oct. 19.

W. Va., Clarksburg—Clarksburg Ice & Storage Co., will build 1 story, 50 x 120 ft., ice plant, by day labor. $50,00. Private plans. Noted Oct. 12.

Ga., Atlanta—White Provision Co., Howell Mill Rd., packing plant, to Griffin Constr. Co., Chandler Bldg. Archts. est. $250,000.

O., Cleveland—Double Eagle Bottling Co., 6517 St. Clair Ave., 2 story and basement, 30 x 60 ft. factory, brick and wood, 6517 St. Clair Ave., to M. Satkovich, 1060 East 176th St. Archts. est. $40,000. Noted Nov. 16.

O., Norwood—Chevrolet Motor Co., General Motors Bldg., Detroit, Mich., 2 story, 25 ft. high, 320 x 500 ft. auto assembly plant rein.-con. and flat slab construction, here, to W. F. Wood Co., 1805 Ford Bldg., Detroit, Mich. Noted Nov. 9.

O., Toledo—Chevrolet Motor Co., General Motors Bldg., Detroit, Mich., 1 story, 91 x 450 ft. plant rein.-con., brick and steel here, to H. J. Speaker, Toledo, (street address not available). Archts. est. $225,000. Noted Nov. 16.

Wis., Manitowoc — Aluminum Specialty Co., 17th and Wollmer Sts., 3 story, 52 x 149 ft., factory and warehouse, brick, rein.-con. and steel, plain foundation, to W. H. Mielke, 1331 South 10th St. Archts. est. $40,000.

Wis., Plover—Whiting—Plover Paper Co., Stevens Point, 3 and 4 story, 30 x 108 ft. brick and timber addition to plant, plain foundation, to C. R. Meyer & Sons Co., 50 State St., Oshkosh. Engrs. est. $55,000.

Wis., Sheboygan — Vollrath Co., West Michigan Ave., 2 story, 180 x 200 ft. factory, brick and steel, plain foundation, to M. Stubenrauch, 1820 North 7th St. Archts. est. $55,000.

Ill., Chicago—See "Miscellaneous."

S. D., Sioux Falls—J. Morrell & Co., 3 or 4 story tank house, rein.-con., brick and steel, to Sioux Falls Constr. Co., Boyce-Greeley Bldg. Archts. est. $175,000.

Mo., St. Louis—Auto Car S. & S. Co., Locust and Leffingwell Sts., 1 story, 134 x 155 ft., rein.-con. and brick garage and service building, plain foundation, 2740 Locust St., to Murch Bros. Co., Railway Exch. Bldg. Archts. est. $60,000.

Mo., St. Louis—Johansen Bros. Shoe Co., 3640 Laclede Ave., 4 story and basement, 55 x 105 ft., factory addition and 3 story, 47 x 71 ft. administration building, rein.-con. and brick, Laclede Ave. near Grand Blvd., to Hartmann & Schuermann Contg. Co., Century Bldg. Archts. est. $100,000.

Wyo., Rawlins—Producers & Refiners Co., Casper, refinery, 10,000 bbl. capacity, here, to Hammond Iron Wks., East Warren (Warren P. O.), Pa.

Idaho, Montpelier—Union Pacific R.R., 58 East Washington St., Chicago, 35 x 328 ft. freight house, rein.-con., brick and steel, here, to Burke Eng. Co., Kearns Bldg. Salt Lake City, Utah. Archts. est. $260,000.

Calif., San Francisco — Amalgamated Laundries, 8th and Harrison Sts., 1 story, rein.-con. garage, 8th St. near Harrison St., to Barrett & Hilp. 918 Harrison St., $40,000.

Que., Montreal—Quebec Liquor Comrs., Delormier St., 2 story, 75 x 100 ft., rein.-con., brick and stone garage, Delormier St., to O. Archambault 610 Parc Lafontaine, $50,000.

Ont., London — Middlesex Motors Ltd., 781 Dundas St., 1 story, 76 x 200 ft. rein.-con. garage and repair shop, to R. G. Wilson & Son, 193 College St., $65,000. Noted Oct. 12.

Buildings

PROPOSED WORK

Vt., Rutland — Bank — Marble Savings Bank having plans prepared by J. J. Cook, archt., 408 Pearl St., Buffalo N. Y., 2 story, 55 x 75 ft., marble. $170,000.

Mass., Salem—School—City having plans prepared by J. H. Bickford, archt., 6 Beacon St., Boston, and takes bids about Jan. 1, 4 story, 40 x 90 ft., brick, plain foundation, South and Essex Sts. $150,000.

Mass., Springfield — Business — L. W. Besse, 348 Main St., having plans prepared by Brown & Von Beren, archts., 185 Church St., New Haven, Conn., 6 story, 70 x 115 ft., brick and terra cotta, plain foundation, Vernon St. $200,000.

R. I., Pawtucket—School—Bd. Educ. had plans prepared by R. C. M. Monahan, archt. 255 Main St., and soon takes bids, 3 story, brick, concrete and steel, plain foundation, Fountain St. $1,200,000.

R. I., Providence—Auditorium and Library—Providence College plans 2 story, 60 x 150 ft., brick, steel and concrete, on Campus. $150,000. Architect not announced.

R. I., Providence — Gymnasium — Public Buildings Dept., City Hall, completing plans 2 story, brick, concrete and steel, plain foundation, Pond St. $250,000. Public Buildings Dept., City Hall, archts.

Conn., Derby—Theatre—I. J. Hoffman, Capitol Theatre, Ansonia, having revised plans prepared by E. C. Horn & Son, archts., 1476 Bway., New York City, 2 story and basement, 65 x 200 ft., Elizabeth St., here. $250,000. Noted July 6.

Conn., New Haven—Home—Jewish Home For Children, c/o Norton & Townsend archts., 839 Chapel St., had plans prepared

Buildings (Continued)

3 story and basement, 50 x 130 ft., concrete, brick and steel, plain foundation, Dixwell Ave. $150,000.

Conn., Norwich—High School—Bd. Educ. plans 3 story, brick. $200,000. W. T. Towner, archt., 152 West 42nd St., New York City, archt.

Conn., Norwich — Theatre etc. — A. A. Spitz, Caesar Misch Bldg., Providence, R. I., having plans prepared by Cudworth & Thompson, archts., Thayer Bldg., 4 story, brick and rein.-con., Ferry St., here. $150,000.

Conn., Rockville — School — Rockville School Dist., plans 1 story and basement, brick and steel, plain foundation, in West District. $150,000. W. B. Chambers, 111 East 40th St., New York City, archt.

N. Y., Buffalo — Amusement Palace — Crystal Palace of Buffalo, Inc., c/o Lewis & Hill, archts., Brisbane Bldg., having plans prepared 4 story, 134 x 300 ft., rein.-con., brick and steel, incl. auditorium, offices, swimming pool and 50 x 200 ft. gymnasium, Pearl St. $300,000.

N. Y., Buffalo—Church—Trinity Methodist Episcopal Church, 35 West Utica St., plans new stone church, 15th century Gothic style, Main and Masten Sts. $150,000. R. L. Foulke, pastor. Architect not announced.

N. Y., New York—Apartment—Margon & Glaser, archts. and engrs., 2806 3rd Ave., preparing plans 5 story, 75 x 100 ft., brick steel and stone, plain foundation, 192nd St. and St. Nicholas Ave. Owner's name withheld.

N. Y., New York—Apartment—Margon & Glaser, archts. and engrs., 2806 3rd Ave., preparing plans 5 story, 100 x 100 ft., brick, steel and stone, plain foundation, Grand Concourse and 180th St. $175,000. Owners name withheld.

N. Y., New York—Hospital—G. R. Hall Syndicate, c/o Sugarman & Hess, archts. and engrs., 16 East 43rd St., soon receives bids 80 x 115 ft., brick, steel and stone, plain foundation, West End Ave. and 72nd St. $3,000,000.

N. Y., New York—Hospital—Physicians Medical Hotel Corp., c/o H. G. Wiseman, archt. and engr., 25 West 43rd St., having plans prepared 9 story, 100 x 175 ft., brick, steel and stone, plain foundation, 5th Ave. and 103rd St. $1,500,000.

N. Y., New York — Office — Guaranty Trust Co., 140 Bway., plans 23 story, 95 x 135 ft., brick, steel and stone, plain foundation, Bway. and Liberty St. $2,000,000. Cross & Cross, 681 5th Ave., archts. and engrs.

N. Y., New York—School—Bd. Educ., 500 Park Ave., soon takes bids 5 story, 60 x 100 ft., brick, steel and stone addition to P. S. 121, plain foundation, East 102nd St. and 2nd Ave. $500,000. C. B. J. Snyder, Concord St. and Flatbush Ave. extension, Brooklyn, archt. and engr. Noted Sept. 28.

N. J., Vineland—Church—Church of Pilgrim, c/o H. McMullin, 303 North 7th St., having plans prepared by Mills & Van Kirk, archts., Harrison Bldg., Phila., 2 story and basement, cut stone, East and Elmer Aves. $150,000.

Pa., Altoona—Bank—S. A. Hite, 2509 8th Ave., plans to build 6th Ward Bank, 3 or 4 story, 100 x 120 ft. rein.-con., brick and steel, 7th Ave. and 25th St. $150,000. Architect not selected.

Pa., Ambridge—School—Bd. Educ. having plans prepared by W. Williams, archt., Magee Bldg., Pittsburgh, brick school, Duss Ave. $300,000.

Pa., Bedford—Hotel—L. F. Hoffman having plans prepared by C. N. Friz, archt., Lexington Bldg., Baltimore, Md., 3 story, 75 x 430 ft. with two 50 x 150 ft. wings, Grand View Ave. $300,000.

Pa., Bellefonte — Church — Evangelical Church plans 2 story and basement, 100 x 120 ft. church and sunday school with adjoining parsonage, brick, steel and stone, High and Spring Sts. $150,000.

Pa., Cynwyd—Apartment—Kier Constr. Co., Franklin Bank Bldg., Phila., soon takes bids 4 story and basement, rein.-con., brick, steel and stone, plain foundation, here. $200,000. R. C. Loss, 2218 Chestnut St., Phila., archt.

Pa., Johnstown—Theatre—G. Panagotacos, Grand Theatre, Main St., plans 85 x 132 ft. brick, steel and stone, Main St. near Franklin St. $200,000.

Pa., Middletown—Home—Penna. State I. O. O. F., c/o W. H. Lee, archt., 32 South 17th St., Phila., soon takes bids 3 story and basement, 157 x 295 ft. brick, steel and stone, plain fonudation. $250,000.

Our 100 Correspondents

are picked men. Applications are continually being received from all parts of the United States and Canada, and from these the best are accepted. Some of our Construction News correspondents have been with us for years, and one or two new ones are "put on" every week. One of our biggest jobs is the upkeep of our Correspondent Staff.

It ought to be thoroughly understood by engineers, contractors, material men, and by all others who make constant use of these pages, that

every item we publish is verified

This essential fact cannot be too positively stated, because *Engineering News-Record* is spending much money and more effort to keep these pages as clear as possible of error and to render its readers

a reliable business-getting service

Our correspondents are not lightly selected. Before appointing a new man we send him a set of printed instructions and sample blanks and advise him to digest this literature thoroughly before writing us again. Those who stand this test, who after studying the job before them still believe they are sufficiently qualified to serve us, are promptly put to work.

Every report sent in by a correspondent gives the source of his information, and as much detail as may be available. If in the opinion of our office force there is the slightest question as to authenticity, or if essential details are omitted, the report is returned with a notation on the back of it. We are in continual communication with our correspondents, and they are imbued with the spirit of

our two watchwords—accuracy and timeliness.

When an important item of business information is both accurate and timely it has another quality which embraces the two just named, and it is this third and comprehensive quality which we aim to achieve in these pages—

Usefulness

Pa., Phila.—Administration—Bd. Educ., 19th and Chestnut Sts., plans 3 story and basement, lime, stone and granite, Parkway Blvd., Cherry and 16th Sts. $1,000,000. Private plans.

Pa., Phila.—School—Bd. Educ., 19th and Chestnut Sts., soon takes bids, 3 story and basement, 150 x 171 ft. rein.-con., brick, steel and stone, plain foundation, Spring Garden and Brandywine Sts. $750,000. Private plans.

Pa., State College — Dormitory — Penna. State College soon takes bids, 2 and 3 story, limestone. $2,000,000. Day & Klauder, Franklin Bank Bldg., Phila., archts.

Pa., Wilkes-Barre—Store—Hub Clothing Co., Public Sq., plans 4 story addition $150,000. Architect not announced.

Buildings (Continued)

Md., **Baltimore** — Schools — City voted $15,000,000 bonds to build and extend schools. A. Heller, business mgr.

W. Va., **Charleston** — Club — Kanawha County Club having plans prepared by L. Lott, archt., 1004 Commercial Bldg., Dayton, O., 2 story. $150,000.

Fla., **Tavares**—Court House—Lake Co. having plans prepared by F. H. Trimble, Orlando, and A. J. MacDonough, Eustis, archts., for court house. Noted Sept. 21.

La., **Gretna**—Schools—Jefferson Parish soon takes bids 5 schools. E. Weil, Whitney Central Bldg., New Orleans, and W. T. Nolan, Canal Commercial Bldg., New Orleans, archts. Noted Aug. 10.

Tenn., **Knoxville** — Apartment — Adair Realty & Trust Co., Atlanta, Ga., plans 150 x 150 ft., on West Church St., here. $400,000. Architect not selected.

Tenn., **Memphis** — Hospital — Methodist Episcopal Church South, having plans prepared hospital. $400,000, nurses home and laundry $100,000, equipment $50,000. Union and Bellevue Sts. L. H. Estes, secy.

O., **Akron**—Theatre—B. F. Keith Theatre Co., c/o E. F. Albee, Palace Theatre Bldg., New York City, having plans prepared by C. W. and G. Rapp, archts., State Lakes Theatre Bldg., Chicago, 1 story, brick, steel and concrete, Main St., here. $500,000.

O., **Gambier**—Dormitory—Kenyon College, c/o W. T. Pierce, pres., having plans prepared by A. Garfield, archt., Natl. City Bldg., Cleveland, 4 story, brick, steel and concrete. $200,000.

O., **Cleveland**—Apartment—Ambassador Impvt. Co., c/o M. Marmorstein, 607 Ulmer Bldg., having plans prepared by S. H. White, archt., 1032 Schofield Bldg., 6 story, on 118 x 200 ft. lot, brick, steel and concrete, East 89th St. and Euclid Ave. $500,000.

O., **Cleveland**—Apartment Hotel—W. V. Brothers, Natl. City Bldg., having plans prepared by J. M. Dyer, archt., 916 Ulmer Bldg., 6 story and basement, brick, steel and concrete, East 93rd St. and Carnegie Ave. $300,000.

O., **Dayton**—Hotel—Consolidated Builders Co., Salem Ave., having plans prepared by F. J. Hughes & Co., archts., 406 U. B. Bldg., 11 story, 50 x 160 ft., rein.-con. and brick, 1st St. and Robert Blvd. $500,000. H. J. Osbon, pres.

O., **Elyria**—High School—Bd. Educ. having plans prepared by R. S. Silsbee, archt., Lorain Co. Bank Bldg., altering and building 2 story, 100 x 100 ft., brick, steel and concrete addition to Washington Junior High School. $175,000.

O., **Lakewood** (Cleveland, P. O.) — Library—Lakewood Pub. Library Bd., c/o R. H. Ingraham, librarian, 15425 Detroit Ave., having plans prepared by C. W. Hopkinson, archt., 900 Rose Bldg., Cleveland, 2 story, brick, steel and concrete addition, 15425 Detroit Ave. $150,000. Noted May 18.

O., **Lakewood** (Cleveland, P. O.)—Store and Apartment—J. E. Lowe, c/o S. H. White, archt., 1032 Schofield Bldg., Cleveland, having plans prepared 3 story, brick and steel, on 100 x 141 ft. site, Detroit and Cohasset Aves. $150,000.

O., **Sandusky**—Bank and Office—Millot & Parker, archts., Sandusky, soon let contract 4 story, 37 x 119 ft., brick and steel, for Commercial Bank & Trust Co. $150,000.

O., **Warren**—Apartment—E. D. Hester, 25 Oak Knoll Dr., had plans prepared by Keich, O'Brien & Hosker, archts. and engrs., Western Reserve Bank Bldg., brick and timber apartment, to have 35 apartments of 3, 4 and 5 rooms, Kenilworth Rd. and East Market St. $150,000.

Mich., **Detroit**—Apartment—H. Silverman, 1030 Penobscot Bldg., having plans prepared by M. H. Finkel, archt., 333 Majestic Bldg., 11 story, 100 x 120 ft. rein.-con., brick and steel, plain foundation, Cass and Putnam Ave.

Mich., **Detroit**—Store and Office—Donovan Bldg. Co., c/o A. Kahn, archt., 1000 Marquette Bldg., having plans prepared 10 story and basement, 60 x 200 ft. rein.-con., steel and stone, plain foundation, Woodward Ave. and Duffield St.

Mich., **Highland Park** (Detroit P. O.)—Apartment—A. Kahn, archt., 1000 Marquette Bldg., Detroit, preparing plans for 4 story and basement, rein.-con., brick and steel, plain foundation, Ferris and Woodward Aves. $350,000. Owner's name withheld.

Mich., **Jackson**—High School—Bd. Educ. having plans prepared by L. H. Field, archt., Jackson, 3 or 4 story, rein.-con. and brick incl. swimming pool, athletic stadium, etc., West Main St. Will vote on $350,000 bonds.

Wis., **Janesville**—Sanatorium—Rock Co., Courthouse, having plans prepared by Van Ryn & De Gelleke, archts., 114 Grand Ave., Milwaukee, 2 and 3 story, 104 x 116 ft., brick, tile and concrete plain foundation. $150,000.

Wis., **Madison**—Main Hall—University of Wisconsin, Administration Bldg., plans 4 story, 175 x 300 ft., brick, rein.-con. and steel, plain foundation. $412,000. Architect not selected.

Wis., **Nashotah**—Dormitory and Gymnasium — Nashota Theological Seminary having preliminary plans prepared by A. C. Eschmeiler, archt., 141 Wisconsin St., Milwaukee, 3 and 1 story, brick, stone and concrete, plain foundation. $150,000.

Kan. **Kansas City**—Market and Office—Pershing Rd. Properties Co., 412 Scarrit Bldg., Kansas City, Mo., had plans prepared by W. S. Ferguson & Co., engrs., 1900 Euclid St., Cleveland, O., 6 story and basement 115 x 138 x 234 ft., rein.-con., brick and terra cotta, 24th St. and Pershing Rd. $1,000,000.

Kan., **Winfield**—School—Voted $200,000 for school and improvements. Address Secretary School Bd. Architect not selected.

Mo., **Kansas City**—Temple—Mt. Moriah Cemetery, 100 Interstate Bldg., having plans prepared by Hoit, Pierce & Barnes, archts., 607 Reliance Bldg., and soon takes bids 1 story and baseemnt, 106 x 154 ft., 105th and Holmes Sts. $150,000.

Mo., **St. Louis**—Apartment—A. Rosenfeld, c/o Donaldson System, engrs., 1111 International Life Bldg., having preliminary plans prepared 3 story and basement, 90 x 175 ft., rein.-con., plain foundation, Kingsbury and Adelaide Sts. $200,000. Architect not selected.

Tex., **Austin**—Hotel—J. B. Pope, Littlefield Bldg., is genl. chn. of Hotel Organization, Com. which plans hotel. $800,000.

Tex., **Beaumont**—Schools—Attorney Generals Dept., Austin, approved $500,000 bond issue for new schools. Address H. A. Steinhagen, mayor.

Okla., **Muskogee** — Dormitory — Morrow College plans dormitory, concrete and brick, $160,000. C. Dawson, Muskogee, archt.

Ore., **Salem**—Apartment—C. E. Linde, archt., 510 Artizans Blvd., Portland, takes bids about Feb. 1, 4 story, 100 x 100 ft., rein.-con., plain foundation, Capitol and Court Sts., here, for Capitol Apartment Co. $200,000.

Calif., **Fresno**—Store, Office and Loft—Fresno Hardware Co., 1247 J St., plans 4 story, J St. $150,000. A. B. McWhorter, secy. and mgr. Architect not selected.

Calif., **Oakland** — Schools — City having plans prepared by C. W. Dickey, archt., 2149 Bway., 1st unit of S. B. Anthony School, Park Blvd. and Hopkins St., rein.-con., $100,000 (completed $1,000,000); 3 story, brick and steel addition to Lakeview School, Perry and Grand Aves., $90,000.

Calif., **San Francisco**—Loft and Office—See "Industrial Works."

Calif., **San Francisco**—Market and Apartment—J. B. Gaffney and R. A. Luce, 1031 Market St., having plans prepared by W. C. Falch, archt., Hearst Bldg., 6 story and basement, rein.-con., Market St. near Gough St. $200,000.

Ont., **Hamilton**—Collegiate—Bd. Control, City Hall, plans brick and stone, King St. Bids early in spring. $500,000. Prices wanted on materials. G. S. Coppley, chn.

B. C., **Point Grey** — Science — Provincial Government voted $1,000,000 toward completion science building, (frame erected) and erection several other buildings here, for University of British Columbia, 10th and Willaw Sts., Vancouver. Sharp & Thompson, London Bldg., Vancouver, archts.

B. C., **Vancouver**—Administration, etc.—Childrens Home, 2613 Wall St., plans 2 or 3 story, central administration building and 5 cottages, brick or tile, Wall St. $200,000. Architect not selected.

BIDS DESIRED

N. Y., **Brooklyn** — Apartment — O. Falk, c/o Shampan & Shampan, archts. and engrs., 50 Court St., 128 x 146 ft., brick, steel and stone, plain foundation, 68th St. and Ridge Blvd. $35,000. Work will be done by separate contracts under supervision of architects.

N. Y., **New York**—Apartment—Bricken Realty Impvt. Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., will build 11 story, 85 x 95 ft. brick, steel and stone, plain foundation, Lexington Ave. $500,000. Work will be done by separate contracts under supervision of architects.

Pa., **Grove City** — Hotel — Owlsey Co., archts., 1301 Mahoning Bank Bldg., Youngstown, O., taking bids 4 story, 99 x 123 ft. rein.-con., brick and steel, for Grove City Hotel Corp., c/o C. Hawshaw, Grove City. $150,000.

Pa., **Phila.**—Apartment—C. E. Oelschlager, archt., 1615 Walnut St., taking bids 4 story and basement, 115 x 175 ft. rein.-con., brick and steel, plain foundation, 42nd and Walnut Sts., for J. B. Thompson, c/o architect. $250,000.

Pa., **Phila.**—School—Dec. 7, by Bd. Educ., 19th and Chestnut Sts., 3 story and basement, rein.-con., brick and steel, plain foundation, Washington Lane and Musgrave St. $750,000. Private plans.

Pa., **Phila.**—F. E. Hahn, archt., 1112 Chestnut St., taking bids 5 story and basement, 141 x 150 ft. rein.-con., brick, steel and stone, caisson foundation, Broad and Pine Sts., for Y. M. H. A., c/o A. M. Greenfield, 15th and Chestnut Sts. $500,000. Former bids rejected. Noted Sept. 28.

Md., **Chevy Chase** — Apartment — L. G. White, Continental Trust Bldg., Wash., D. C., will build apartment house here by separate contracts. $500,000. Stern & Tomlinson, Continental Trust Bldg., Wash., D. C. archts.

Fla., **Jacksonville**—Schools—Dec. 9, by F. A. Hathaway, supt. Duval Co. School Bd., 2 schools, one at 10th and Hubbard Sts., other Stockton and College Sts. $200,000. Greeley & Benjamin, Bisbee Bldg., archts.

Tenn., **Morristown**—High School—Dec. 8, by C. T. Jones, archt., James Bldg., Chattanooga, 3 story and basement, 150 x 200 ft., South St. $150,000.

O., **Cleveland** — Store and Apartment — Eighteen Twenty East 79th St. Co., c/o Wright & Behan, archts., 4502 Euclid Ave., taking bids 3 story and basement, 113 x 116 ft., brick, steel and concrete, 1820 East 79th St. $325,000.

O., **Dayton**—Office—Dec. 1, by United Brethren Church, 14 story, 60 x 128 ft., and 7 story addition to adjoining structure, rein.-con., tile and brick, 4th and Main Sts. $850,000. F. J. Hughes Co., 406 U. B. Bldg., archts.

O., **McCombs**—School—Dec. 22, by C. Dollerof, clk. Bd. Educ., 2 story and basement, 135 x 150 ft., brick, rein.-con. and steel. $300,000. T. D. McLaughlin, Savings Bldg., Lima, archt.

Mich., **Hancock**—School—Dec. 1, by Bd. Educ., 3 story and basement, 80 x 116 ft. rein.-con., brick, stone and tile. $300,000. G. L. Lockhart, 1353 University Ave., St. Paul, Minn., archt.

Wis., **Kenosha**—Courthouse, etc.—Dec. 28, by Kenosha Co., 3 and 2 story and basement, 126 x 226 ft. and 67 x 138 ft. courthouse, administration building and jail, stone, brick and concrete, plain foundation. $65,000. Lindl, Lesser & Schutte, 82 Wisconsin St., Milwaukee, archts.

Mo., **Kansas City**—Church—Jan. 1, by Central Presbyterian Church, 3727 Forest Ave., 1 story and basement, Campbell St. $150,000. Shephard & Wiser, 302 R. A. Long Bldg., archts.

Tex., **Amarillo** — Hospital — Dec. 12, by Comrs. Potter Co., 2 story, hospital, nurses home and tubercular cottage, rein.-con. and brick, plain foundation. $160,000. G. A. Carlander, Amarillo, archt. and engineer.

Tex., **Dallas**—Dec. 4, by Comrs. Dallas Co., two 60 ft. steel span bridges, 18 ft. roadway, over Johnson and Fish Creeks. Nagle Witt & Rollins, Courthouse, engrs.

Tex., **San Antonio**—High School—Dec. 5, by Phelps & Dewes, archts., Gunter Bldg., 1 story with partial 2nd floor for cafeteria, brick and tile, caisson foundation on concrete footings, New Braunfels, Cooper and Delmar Sts. $180,000. W. E. Simpson Co., Natl. Bank Commerce Bldg., engrs. Noted Nov. 25.

Calif., **Isleton**—Apartment—See "Industrial Works."

Calif., **San Diego**—Hotel and Theatre—See "Miscellaneous."

Calif., **Santa Barbara**—High School—Dec. 18, by E. C. Dengate, clk. Santa Barbara High School Dist., 1 and 2 story and basement, rein.-con. $500,000. W. H. Weeks, 369 Pine St., San Francisco, and R. F. Sauter and E. K. Lockard, San Marcos Bldg., archts. Noted Nov. 16.

BIDS RECEIVED

D. C., **Wash.** — High Schools — Dist. Comrs., 509 Dist. Bldg., for 2 junior high schools (1) price for both schools (2) McFarland School (3) Langley School, from M. Serreto, Main Treas. Bldg., (1) $715,000 (2) $363,863 (3) $356,853; G. E. Wyne, Home Life Bldg., (1) $767,300; M. A. Long, 2016 West North Ave., Baltimore, Md. (1) $824,840 (2) $414,776 (3) $416,619. Noted Nov. 2.

Buildings (Continued)

CONTRACTS AWARDED

Mass., Brighton (Boston P. O.)—Apartment and Store—Silverman, Brown & Heenan, (archts. and owners), 51 Cornhill, Boston, will build 6 story, 70 x 200 ft., brick stone and steel, plain foundation, Allston St. here, by day labor. $550,000.

Mass., Brookline (Boston P. O.)—Apartment—F. Diliberto, 34 School St., Boston, will build 3 story, brick, stone and steel, plain foundation, Parkman Ave. and Pleasant St. here, by day labor. $150,000. S. S. Eisenberg, 46 Cornhill, Boston, archt.

Mass., Worcester—School—St. Casimirs Lithuanian Church, 41 Providence St., 3 story, brick, steel and concrete, plain foundation, Waverly St., to J. M. and C. J. Buckley Co., 128 Vernon St. Archts. est. $150,000. Noted Oct. 5.

Conn., Glastonbury—High School—School Bldg. Com., 2 story and basement, brick and steel, plain foundation, Main St., to Industrial Constr. Co., 721 Main St., Hartford. Archts. est. $150,000. Noted Nov. 2.

N. Y., New York — Apartment — Calma Realty Co., c/o G. and E. Blum, archts. and engrs., 505 5th Ave., 80 x 100 ft., brick, steel and stone, plain foundation, Lexington Ave. and 93rd St., by day labor. $350,000. Noted Sept. 14.

N. Y., New York—Apartment—J. S. Kahn, c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., 9 story, 75 x 95 ft., brick, steel and stone, 24 West 9th St., by day labor. $400,000.

N. Y., New York—Apartment—J. F. Meehan, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., 5 story, 100 x 125 ft., brick, steel and stone, plain foundation, Wythe Ave., by day labor.

N. Y., New York—Loft—Four Twenty-One to Four Twenty-Five West 54th St. Corp., c/o F. A. Rooke, archt. and engr., 15 East 40th St., will build 6 story, brick, steel and stone, plain foundation, by day labor. $400,000. C. Scott, pres.

Pa., Phila.—Bank and Office—Corn Exch. Bank, 1506 Chestnut St., 6 story 39 x 108 ft. rein.-con., brick and steel caisson foundation, 1510 Chestnut St., to H. E. Baton, 1713 Sansom St. $520,000.

Pa., Phila.—Schools—Bd. Educ., 19th and Chestnut Sts., 2 story, 3rd and Duncannon Sts. and 3 story and basement, Germantown Ave. and Southampton St., to Cramp & Co., Denckla Bldg., $428,562 and $444,297, respectively; 3 story and basement, 9th and Oregon Aves., to McCloskey & Co., 1629 Thompson St., $406,666. Noted Nov. 16.

Fla., Sanford — Bank and Office — First Natl. Bank 6 story, rein.-con., hollow tile and brick, to G. A. Fuller Co., Munsey Bldg., Wash., D. C., $225,000.

Va., Richmond—Office and Bank—Amer. Natl. Bank, Amer. Natl. Bank Bldg., 10 story, 47 x 106 ft., rein.-con. and steel, Grace and 4th Sts., to Wise Granite and Constr. Co., Inc., 1001 East Main St., $350,000.

Va., Richmond—Office and Bank—Grace Street Bank, 10 story, brick and limestone, Grace and 3rd Sts., to Wise Granite and Constr. Co., Inc., 1001 East Main St., $300,000.

Tenn., Knoxville—Church—First Baptist Church, Gay St., steel, brick and marble, concrete pile foundation, West Main St., to Worsham Bros., Empire Bldg., $385,000. Archts. est. $300,000. Noted June 22.

O., Cleveland—Apartment—C. B. Grundstein, 14188 Superior Rd., 3 story and basement, 106 x 142 ft., brick and wood, North Moreland Blvd., to I. and B. Dolinsky, 2216 East 83rd St. Archts. est. $200,000. Noted Nov. 23.

O., Cleveland—Parcel Post Station—J. Kulp, 105 West Monroe St., Chicago, 5 story and basement, brick, steel and concrete, 131 West St. Clair Ave., here, to S. W. Emerson Co. 1836 Euclid Ave. $400,000. Noted Aug. 31.

O., Cleveland—School—Bd. Educ., East 6th St. and Rockwell Ave., 2 story, 146 x 295 ft., brick, steel and concrete addition, 932 Jefferson Ave., to A. Dall, 3079 Euclid Blvd., Cleveland Heights, $439,908; heating and ventilating apparatus, to J. Roemer Heating Co., East 22nd St., $60,706. Noted Nov. 16.

O., Lakewood (Cleveland, P. O.)—Theatre and Office—Lincoln Theatre Building Co., c/o C. G. Burton, 2301 Center Rd., Cleveland, 2 story and basement, 80 x 165 ft., brick and steel, Madison and Arthur Aves., here, to J. W. Chrisford, 1452 Highland Ave., Cleveland. Archts. est. $150,000.

O., Oakwood (Dayton, P. O.) — High School—Bd. Educ. 3 story and basement, brick and rein.-con., Lebanon Pike, to Danis-Hunt Constr. Co., 907 Schwind Bldg., Dayton, $350,000. Noted Oct. 19.

Mich., Ann Arbor—Dormitory—University of Michigan Alumni c/o R. W. Koch, archt., 734 Book Bldg., Detroit, 4 story, 39 ft. high, 50 x 150 ft., rein.-con., brick and steel, plain foundation, University Ave., to Natl. Constr. Co., 1031 Dime Bank Bldg., Detroit. Archts. est. $150,000.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 12 story and basement, 58 x 183 ft. and 67 x 181 ft. rein.-con., brick and steel, plain foundation, Duboise and Waterloo Aves., to F. N. Cooper, 6370 Gratiot Ave., $321,104. Noted Nov. 23.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 2 story and basement, 171 x 191 ft., rein.-con., brick and steel, plain foundation, Palmer Ave. to Martin-Krausmann Co., 606 Woodward Ave., $403,500. Noted Nov. 23.

Wis., Kenosha—Store and Office—S. Schwartz, 927 North Sheridan Rd., Waubegan Ill., 3 story and basement, 66 x 126 ft. brick and steel joist, plain foundation, Main St., to T. Jensen, 820 North Ave., Waukegan, Ill. Archts. est. $150,000.

Wis., South Madison (Madison P. O.)—High School—F. L. Kronenberg, archt., Carroll Blk., Madison, 2 story, 60 x 180 ft. rein.-con., brick and steel, here, to J. H. Findorff & Son, 601 West Wilson St., for Bd. Educ. Archts. est. $150,000. Noted Nov. 2.

Kan., Winfield — College — Southwestern College, Wichita, general contract 3 story and basement, 150 x 170 ft., rein.-con., brick, and stone, to G. H. Gassman, Arkansas City, $152,000. Noted Nov. 16.

Mo., St. Louis—Apartment—Guild Investment Co., 4907 West Pine Blvd., 5 story and basement, 96 x 129 ft., rein.-con. and brick, plain foundation, to S. Frank, Century Bldg. Archts. est. $200,000. Noted Nov. 23.

Mo., St. Louis — Apartment — Syndicate c/o Weisels Gerhart Real Estate Co., 8th and Chestnut Sts., 3 story and basement, on 100 x 200 ft. lot, rein.-con. and brick, plain foundation, North Court St., to H. Horowitz, Arcade Bldg. Archts. est. $250,000.

Calif., Oakland—Store—Roos Bros., 4th and Market Sts., 3 story, 100 x 124 ft., rein.-con., Bway. and 15th St., to W. Knowles, Central Bank Bldg., $300,000. Noted Sept. 14.

Que., Montreal—Art School—Provincial Government, Quebec, 3 story, 60 x 175 ft. brick, steel and stone, to Collette & Freres, St. Catherine St. E., $150,000. Noted Sept. 14.

Que., Montreal—Clubhouse—Metropolitan Columbian Assn., Montreal, (street address not available) 5 story, 82 x 140 ft. rein.-con., brick and steel, Mountain St., to Archambault & Leclaire, 71 St. James St., $254,000.

Ont., Owen Sound—School—A. Wright, trustee and chn. Bd. Educ., 3 story and basement, 100 x 300 ft. brick and stone technical school, 5th Ave., to Green & Woolrich, 201 5th Ave., $185,000. Noted Nov. 2.

Federal Government Work

PROPOSED WORK

N. C., Greensboro — Post Office — Treas. Dept., Wash., D. C., plans U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

BIDS DESIRED

N. C., Wilmington—Barge—Dec. 26 at office U. S. Engineer, Wilmington, for 1 steel barge; adv. this issue.

Tex., El Paso—Quarters, etc.—Dec. 20, at office Constructing Quartermaster, William Beaumont General Hospital, for officers' quarters, guard house, etc., here; adv. this issue.

BIDS RECEIVED

Mo., St. Louis—Earthwork—Secretary Mississippi River Comn., 1311 International Life Bldg., 170,000 cu.yd. hydraulic fill, above Cairo, Ill., in Sub-Dist. 1 of Drainage Union Dist. 1, Illinois, from La Crosse Dredging Co., 405 Plymouth Bldg., Minneapolis, Minn., $43,690; Northern Dredge & Dock Co., 428 Metropolitan Bank Bldg., Minneapolis, Minn., $68,000. Noted Nov. 2.

Mo., St. Louis—Earthwork—Secretary Mississippi River Comn., 1311 International Life Bldg., 380,000 cu.yd. earthwork, near Apex, Kings Lake D.D. from McWilliams Co., Inc., Exch. Bldg., Memphis, Tenn., $85,082; La Crosse Dredging Co., 405 Plymouth Bldg., Minneapolis, Minn., $90,250; W. Lemaster, Benton, Ill., $102,000. Noted Oct. 26.

Calif., San Francisco — Riprap Stone—U. S. Engineer, 240 Montgomery St., furnishing 3,000 ton riprap stone for Paradise Dam on San Joaquin River and Canal of Paradise Cut, from Raymond Granite Co., 3 Potrero Ave., $0.50 per ton.

CONTRACTS AWARDED

O., Chillicothe—Hospital—U. S. Veterans Bureau, Arlington Bldg., Washington, group of 22 buildings, 1 and 2 story, brick and concrete, for Neuro-Psychiatric Hospital, at Camp Sherman, here, to George A. Fuller Co., 4900 Euclid Ave., Cleveland, $1,497,000. Noted Nov. 23.

Miscellaneous

PROPOSED WORK

Piers—Cape May, N. J.—Chapman & Fisher, engrs., Bourse Bldg., Phila., take bids in February for two 700 ft. covered piers for storing materials, also coaling pier, here. $850,000. Owner's name withheld.

Stadium—Erie, Pa.,—Bd. Educ., Library Bldg., plans stadium enclosing field 330 x 650 ft., bowl shape, 15,000 seating capacity, $150,000. Engineer not selected.

Stadium — Parkersburg, W. Va. — Bd. Educ. plans stadium. $150,000. Architect not announced.

Electric Light System—Lecompte, La.—See "Waterworks."

Steam Heating Plant, etc. — Appleton, Wis.—Eagles Lodge making plans for new steam heating plant and boilers for lodge building. $25,000. E. A. Wettengel, 578 Pierce Ave. engr.

Graders and Tractors—Council Bluffs, Ia.—Plans purchase several graders and tractors. E. E. Stepman, city engr.

Stadium — Missoula, Mont. — Alumni of State University having plans prepared and will take bids in spring for stadium on State University campus, here. $40,000 being raised for project.

Wharves and Docks—Beaumont, Tex.—Attorney Generals Dept., Austin, approved $400,000 bond issue for wharves and docks. Address B. A. Steinhagen, mayor.

White Way—Corsicana, Tex.—Had plans prepared white way from Beaton and 11th Sts. $25,000. J. W. Harrison, city engr.

White Way — Jefferson, Tex. — Jefferson Ice & Light Co. making plans street lighting system. $30,000.

Trucks — Portland, Ore. — L. S. Kaiser, supt. waterworks, City Hall, takes bids in January for five ¾ ton and one 5 ton truck.

Street Sweeper—Palo Alto, Calif.—City plans to purchase motor driven street sweeper. $6,500. J. F. Bxybee, Jr., city engr.

Electric Distribution System—St. John, N. B.—Plans electric distribution system incl. pole lines and underground duct system. $600,000. G. F. Fisher, mayor.

Electric Lighting System—Atwood, Ont.—Atwood Lighting Co. plans electric lighting system. J. G. Dickson, pres.

Power Line—North Vancouver, B. C.—British Columbia Electric Ry. Hastings and Carroll Sts., Vancouver, plans power line from Lake Buntzen to Brittania Beach. $150,000. Company is also considering new pole line from Lake Buntzen to suburbs of Vancouver. J. I. Newell, c/o owner, electrical supt.

Marine Ways—Vancouver, B. C.—See "Industrial Wks."

BIDS DESIRED

Dock Wall—Buffalo, N. Y.—Dec. 27, by C. L. Cadle, supt. Pub. Wks., Albany, constructing certain portions of dock-wall, at Ohio Basin, here; adv. this issue.

Electric Light Standards—Buffalo, N. Y.—Dec. 4, by Dept. Parks, 13 City and County Hall, 400 electric light standards.

Coarse Aggregate — New York, N. Y.—Dec. 8, by J. Miller, pres. Manhattan Boro. Municipal Bldg., furnishing and delivering 1,000 cu.yd. coarse aggregate for concrete.

Wall—Delaware—Dec. 13, by State Hy. Dept., Dover, wall on Philadelphia Pike. Contr. RW-1; adv. this issue.

Excavator and Tractor—Ft. Pierce, Fla.—Dec. 5, by Comrs. St. Lucie, Co., excavator and caterpillar tractor of ¾ of 1 cu.yd. capacity. $25,000. E. H. Collins, Ft. Pierce, engr.

Miscellaneous (Continued)

Gas Distribution System—Alexandria, La.—Dec. 7, by Comn. Council, gas distribution system incl. 136,000 ft. c.i. and 52,000 ft. steel pipe, valves, etc. W. H. Sylvester, city engr.

Creosoted Piles—New Orleans, La.—Dec. 7, by Bd. Port Comrs., New Orleans Court Bldg., 415 creosoted piles, 70 and 85 ft. long.

Shed—New Orleans, La.—Dec. 7, by Bd. Port Comrs., steel frame and corrugated iron shed at Market St. wharf. $150,000.

Wharf—New Orleans, La.—Dec. 14, by Bd. Port Comrs., New Orleans Court Bldg., reconstructing wharf and ratproofing at Robin St. Landing; adv. this issue.

Road Machinery—Illinois—Dec. 6, by Dept. Pub. Wks. and Buildings, and Div. Purchases and Supplies, Springfield, 27 portable heating kettles, 32 graders, etc. H. H. Kohn, supt.; adv. this issue.

Lumber — Bedford, Ia.—Dec. 5, by Supervs. Taylor Co., for 180,000 ft. No. 1 common Douglas fir bridge lumber $7,000.

Piling and Lumber—Indianola, Ia.—Dec. 6, by Supervs. Warren Co., for 7,140 ft. 9 in. tip cypress piling and 323,000 ft. fir bridge lumber.

Bituminous Macadam, etc.—Clayton, Mo.—Dec. 6, by W. Elbring, engr. St. Louis Co., Court House, furnishing 2,792 squares bituminous macadam for Florissant Rd. from northern limits of Ferguson, Mo., to St. Francois St. in St. Ferdinand, Mo., thence along St. Francois St. to Ferdinand St.; Ferdinand St. to Graham Rd.; 3,200 squares for Bellefontaine Rd. from city limits of St. Louis to Larimore Rd., 2,432 squares for New Halls Ferry Rd. from Old Halls Ferry to Parker Rds., 2,205 squares for Old Halls Ferry Rd. from New Halls Ferry Rd. to Black Jack, and Parker Rd. from Old Halls Ferry Rd. eastward 1,000 ft.; furnishing 124,101 gal. refined tar or Bermudez asphalt for bituminous macadam pavement for Florissant Rd. from St. Francois to Ferdinand Sts., 128,000 gal. for Bellefontaine Rd., 97,266 gal. for New Halls Ferry Rd., 88,200 gal. for Old Halls Ferry and Parker Rds.; 1,713 ton roofing gravel for Florissant Rd., St. Francois and Ferdinand Sts., 1,756 ton for Bellefontaine Rd., 1,342 ton for New Halls Ferry Rd., 1,217 ton for Old Halls Ferry and Parker Rds.

Steam Shovel—Marshall, Tex.—Marshall Brick Co. receiving bids steam shovel about 1¼ yd. capacity.

Tract Development—San Diego, Cal.—M. J. Lyon, archt. and engr., 521 Union Bldg., also at 333 Kearny St., San Francisco, taking bids for erecting townsite on 645 acres land at Tia Juana, Mexico, incl. 14 mi. macadam streets, sewers and lighting system, 4 story tile and timber hotel, rein.-con. theatre, harbor developments, railroad extensions, gas plant, golf courses, polo grounds, athletic field, amusement buildings, etc., for Zarocoza Investment Co., 521 Union Bldg., San Diego. Total cost between $4,000,000 and $5,000,000.

BIDS RECEIVED

Shaft—Brooklyn, N. Y.—Bd. Estimate & Apportionment, City Hall, New York, opened bids Nov. 27, Shore Rd. shaft, here, for freight and passenger railroad tunnel in Boros of Brooklyn and Richmond under New York Bay, New York City, from P. McGovern & Co., 50 East 42nd St., New York, 494,000; Keystone State Co., $510,000; Mason Hanger, $523,000. Noted Nov. 2.

Lumber—Ocean City, N. J.—State Hy. Dept., Trenton, opened bids Nov. 21, furnishing 487,400 ft. lumber for use on Ocean City-Somers Point Bridge, delivery made f.o.b. cars at railroad siding, here, from J. D. Loieaux Lumber Co., South Ave., Plainfield, $27,262 and $27,670; Townsend Lumber Yard, Ocean City (street address not available) $29,828 and $28,292; Boynton Lumber Co., Sewaren, $31,655 and $30,218. Noted Nov. 2.

Underpasses, etc.—North Carolina—State Hy. Comn., Raleigh, grading underpasses and building substructures under Southern R.R. at Gibsonville and Four Mile Siding, State Project 532, Guilford Co., from L. M. Lowdermilk, Route 4, Greensboro, $25,000; N. L. Teer, Durham, $29,080; C. B. Hester, Greensboro, $38,420. Noted Nov. 9.

Brick—Tampa, Fla.—Hillsborough Co. opened bids Nov. 18, furnishing 10,000,000 bricks, from Westport Co., Westport (Baltimore P. O.), $41.80 per 1,000; Southern Clay Mfg. Co., Vol St. Life Bldg., Chattanooga, Tenn., $45 per 1,000.

Asphalt—Detroit, Mich.—Dept. Pub. Wks., furnishing 6,000 ton asphalt f.o.b. Detroit, (1) per ton in packages (2) per ton in tank cars, from Atlantic Refining Co., 3144 Passyunk Ave., Phila., Pa., (1) $23.68 (2) $18.95; Standard Oil Co., 910 South Michigan Ave., Chicago, (1) $24.25 (2) $20.25; U. S. Asphalt Refining Co., 90 West St., New York City, (1) $23.85 (2) $20.

Retaining Wall — Des Moines, Ia. — For 180 ft. rein.-con. retaining wall, 40 ft. high, along east bank Des Moines River, north of University Ave., 760 cu.yd. rein.-con., 50 ton steel bars, from J. Horrabin, 1422 Walnut St., $24,600; Koss Constr. Co., 2818 5th St., $28,333; F. E. Marsh & Co., Jefferson, $28,900. Noted Nov. 16.

CONTRACTS AWARDED

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.—Bd. Educ., 500 Park Ave., New York, heating, ventilating and temperature regulation apparatus in Thomas Jefferson High School, Dumont Ave., here, to Gillis & Goeghegan, 537 West Bway., New York, $179,840. Noted Nov. 9.

Wall, etc.—Buffalo, N. Y.—Commissioner Pub. Wks., Municipal Bldg., crib and concrete wall, to Great Lakes Dredge & Dock Co., Morgan Bldg., $97,000; low landing dock, to G. Parks Sons Co., 217 15th St., $8,850. Noted Nov. 9.

Asphaltic Wearing Surface Sand—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 2,000 cu. yd. asphaltic wearing surface sand, to C. W. Crane, 17 Battery Pl., $2,080. Noted Nov. 23.

Column Foundations—New York, N. Y.—Transit Comn., 49 Lafayette St., column foundations for part of Rapid Transit R. R., Flushing Route, to Gustin Morris Co., Creek St. and Anabel Pl., Long Island City, $91,613. This corrects report in Nov. 23 issue.

Jetties, etc.—Longport, N. J.—Bd. Boro Comrs. to E. J. Holland, 11 North Hillside St., Atlantic City, placing stone on 11th Ave. jetty, $3.60 per ton; to F. P. Gandy, 28 North Sovereign St., Atlantic City, for bulkhead, $12 per ft.; to L. J. Sieling, Broad St., Red Bank, stone in front of seawall, $4.85 per ton, placing floats $3,450, $3,150 and $2,850. Noted Oct. 26.

Concrete Culvert Pipe—South Carolina—State Hy. Comn., Columbia, furnishing and delivering various sized concrete culvert pipe, to Southern Constr. Products Co., Anderson. Noted Oct. 26.

Foundation—Ill., Chicago—Olson Rug Co., 32 Lafin St., foundation for 5 story, 84 x 187 ft. factory, rein.-con., brick and steel, 1514-20 West Monroe St. to Sternberg-Powell Co., 37 West Van Buren St. Noted Oct. 12.

Train Sheds — Galveston, Tex. — Gulf, Colorado & Santa Fe R.R., Union Depot Bldg., 2 Y-shaped concrete and steel train sheds, to Doullut & Williams, Howard St., New Orleans, La., $25,000.

Tunnel—Rocky Point (Metz P. O.), Calif.—Southern Pacific Ry. Co., 65 Market St., San Francisco, 1,200 ft. single track railway tunnel, concrete lined, to Utah Constr. Co. Phelan Bldg., San Francisco, $200,000.

Gas Mains—Ottawa Ont.—Ottawa Gas Co., 35 Sparks St., will extend gas mains to Eastview, by day labor. $75,000. A. A. Dion, 2 4th Ave., engr.

PIPE LINE—VENTURA, CALIF.

Mutual Water Companies received bids constructing concrete pipe line, (A) Fowler & Myers, San Fernando; (B) United Concrete Pipe Co., Montalvo; (C) Boyd & Tellyer, San Diego. The unit bids were as follows:

	A	B	C
500 lin.ft. 36-in. reinforced concrete pipe	$4.05	$4.22	$4.10
3,800 lin.ft. 30 in. reinforced concrete pipe	2.20	2.82	3.25
2,500 lin.ft. 30 in. plain concrete pipe	2.20	2.75	3.00
2,000 lin.ft. 22 in. reinforced concrete pipe	1.05	1.28	1.58
1,800 lin.ft. 22 in. plain concrete pipe	1.05	1.25	1.58
2,400 lin.ft. 20 in. plain concrete pipe	.90	.99	1.50
2,700 lin.ft. 16 in. reinforced concrete pipe	.66	.60	1.20
2,700 lin.ft. 16 in. plain concrete pipe	.66	.58	1.15
4,500 lin.ft. 12 in. plain concrete pipe	.45	.39	.70
100 lin.ft. 8 in. plain, for air vents	.65	.40	.50
100 lin.ft. 10 in. plain for risers	.85	.50	.60
100 lin.ft. 18 in. plain for risers	1.25	1.00	1.50
Extended totals all items (21 items)	$36,743	$43,457	$55,632

FOUNDATIONS—NEW YORK, N. Y.

Following are lowest three bids opened Oct. 20, by Transit Comn., 49 Lafayette St., New York City, for constructing foundations for third addition to shops at Lenox Ave. and 148th St. Yard, (A) Rosenthal Eng. & Contg. Co., 226 Jackson St., Brooklyn, (awarded contract); (B) M. De Balso, 560 East 221st St.; (C) O'Connell & Strada, Inc., 3329 Olinville Ave. The unit bids were as follows:

	A	B	C
42,400 cu.yd. earth excavation, above mean high water	$2.12	$1.90	$1.75
2,250 cu.yd. earth excavation, below mean high water	3.45	4.50	2.50
525 cu.yd. concrete masonry, 1:2:3 .85 concrete	20.00	20.00	16.00
6,100 cu.yd. concrete masonry, 1:2.5:5 concrete	19.00	15.00	15.25
5 cu.yd. brick masonry	32.00	35.00	28.00
150,000 lin.ft. timber piles	.42	.70	.85
1M. ft. b.m. timber foundations	200.00	100.00	120.00
900 sq.yd. waterproofing, coating of pitch without fabric	.30	.60	.30
3,800 duct. ft. railroad ducts	.50	.60	.40
6 ton steel beams and shapes	160.00	95.00	90.00
27 ton steel rods and bars	90.00	75.00	75.00
3 ton miscellaneous iron castings	300.00	180.00	125.00
17 ton cast iron sewer pipe, straight pipe	90.00	90.00	110.00
2 ton cast iron sewer pipe, special castings	200.00	200.00	180.00
Extended totals	$295,801	$305,845	$315,970

FOUNDATIONS—FLUSHING, N. Y.

Following are lowest three bids opened Nov. 10, by Transit Comn., 49 Lafayette St., New York City, for constructing foundations for Route 52, Sect. 1, Flushing Route of Rapid Transit R.R., (A) Gustin Morris Contg. Corp., 72 Hunterspoint Ave., Queens; (B) H. Newman, 97 Court St., Brooklyn; (C) Meads & Co., 27 West 14th St., New York City. The unit bids were as follows:

	A	B	C
9,000 cu.yd. column excavation above M.H.W.	$3.25	$1.92	$3.40
50 cu.yd. column excavation below M.H.W.	3.25	3.84	8.00
10 replacing trees	25.00	25.00	25.00
210 cu.yd. concrete masonry 1:2:3 .85 concrete	30.00	19.62	20.00
2,100 cu.yd. concrete masonry 1:2½:5 concrete	11.00	15.00	13.00
13,000 lin.ft. precast reinforced concrete piles	1.80	3.00	2.40
10 cu.yd. broken stone or gravel in place	4.00	6.50	7.00
150 sq.yd. waterproofing-pitch without fabric	.50	1.00	1.40
300 lin.ft. 4-in. vitrified drain pipe in place	.40	.50	.50
50 ton structural steel for column foundations in place	125.00	140.00	115.00
800 sq.yd. restoring street surface	2.00	3.00	2.50
100 lin.ft. restoring old curb	2.00	1.00	2.00
10 service connections for sewers	20.00	10.00	40.00
50 lin.ft. 4-in. water pipes and appurtenances	.50	.50	3.00
50 lin.ft. 6-in. water pipes and appurtenances	.60	1.00	4.00
10 service connections for water pipes	20.00	10.00	40.00
50 lin.ft. 6-in. c.i. gas pipes and appurtenances	.60	1.00	4.00
10 service connections for gas pipes	20.00	10.00	30.00
1 ton c.i. hub and spigot straight pipe	60.00	100.00	120.00
1 ton c.i. hub & spigot special castings	120.00	150.00	180.00
Extended totals	$91,613	$102,882	$104,280

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Dec. 13.

Highway Work

Dover, Del.

Sealed proposals will be received by the State Highway Department, at its office, Dover, Delaware, until 2 o'clock P.M., December 13, 1922, and at that place and time publicly opened, for the construction of State Highway work, involving the following approximate quantities:

CONTRACT RW-1
WALL ON PHILADELPHIA PIKE
750 cu.yd. Excavation.
700 cu.yds. Cement Rubble Masonry.

Performance of contract shall commence within ten (10) days after execution of the contract and be completed on or before April 1, 1923.

Monthly payments will be made for 90 per cent of the construction completed each month.

Bidders must submit proposals upon forms provided by the Department.

Each proposal must be accompanied by a surety bond, certified check, or money to the amount of at least ten (10) per centum of the total amount of the proposal.

The envelope containing the proposal must be marked "Proposal for the Construction of State Highway work under Contract No. RW-1."

The Contract will be awarded or rejected within twenty (20) days from the date of opening proposals.

The right is reserved to reject any or all bids.

Detailed plans may be seen and index plans and specifications may be obtained upon deposit of ten dollars ($10.00) which amount will be refunded upon return of plans and specifications in good condition at the office of

STATE HIGHWAY DEPARTMENT.
Dover, Delaware.

Bids: Dec. 19.

Mt. Prospect Conduit

CONTRACT 196

New York, N. Y.

Sealed bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers Streets, New York City, until 11 A.M., Eastern Standard time, on Tuesday, December 19, 1922, for Contract 196, for the construction of the Mt. Prospect conduit, a portion of the City conduits of the Catskill aqueduct, extending from Shaft 24 of the City tunnel in Fort Greene park, along Cumberland Street, Lafayette, Washington and Flatbush Avenues to Clarkson Avenue, in the Borough of Brooklyn, New York City.

The conduit will consist of about 10,530 linear feet of 72-inch and 6,270 linear feet of 66-inch steel pipe, about 360 tons of cast-iron pipe and special castings of various sizes, a Venturi meter, valves and other appurtenances, all of which will have to be maintained for one year.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE GILLESPIE,
President.
JAMES P. SINNOTT.
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER, Secretary.

OFFICIAL PROPOSALS

Bids: Dec. 14.

Steel Truss Bridge

Hamburg and Evans, N. Y.

Sealed proposals will be received by the joint Town Board of Towns of Hamburg and Evans, Erie County, N. Y., at the office of the Town Clerk, Hamburg, N. Y., on Thursday, December 14th, at 2:00 P.M., for the construction of a steel truss highway bridge, 180-ft. span and 24-ft. roadway, on the Lake Shore State Highway, across the Eighteen Mile Creek.

Plans, specifications and bidding sheets may be obtained at the office of George C. Diehl, County Engineer, 577 Ellicott Sq., Buffalo, N. Y. Said plans and specifications are on file with the Town Clerks of the Towns of Hamburg and Evans, as follows:

Jos. E. Leach, for Hamburg, Main St., Hamburg, N. Y.

Edward F. Johns, for Evans, Angola, N. Y.

Each proposal must be accompanied by a certified check for at least 5 per cent of the amount of the proposal, and shall be made payable to George B. Abbott, Supervisor, Town of Hamburg.

Each proposal must also be accompanied by an affidavit from a surety or bonding company, duly qualified under the laws of the State of New York, stating that in case this bidder be awarded the contract for the work covered in the bid, said surety or bonding company will furnish the required bond within ten (10) days of the award of the contract.

The joint Town Board of Hamburg and Evans reserves the right to reject any or all proposals.

JOSEPH E. LEACH,
Town Clerk of Hamburg.
EDWARD F. JOHNS,
Town Clerk of Evans.

Dated, November 20, 1922.

Bids: Dec. 4.

Street Paving and Draining

Earlington, Ky.

Sealed proposals will be received up to 2 o'clock p.m., December 4, 1922, by the Mayor of the city of Erlington, Ky., for the paving and draining the several streets in the city of Earlington, Ky., with warrenite bitulithic pavement or vitrified brick pavement on a rolled stone base, the type to be selected by the City Council after the bids have been opened and compared.

Estimated Quantities.—Earth excavation, 23,570 cu.yd.; paving surface, 46,300 sq. yd.; crushed stone, 13,840 cu.yd.; curb and gutter, 22,870 lin.ft.; storm sewers, 12-in. to 42-in., 4,776 lin.ft.; manholes, 23; inlets, 62; concrete, 1:2½:5, 162.44 cu.yd.; 1:2:4, 84.02 cu.yd.; 1:2:3, 1.27 cu.yd.; reinforcing steel, 10,215 lb. These quantities subject to modification.

The City Council reserves the right to reject any or all bids. Each bid must be accompanied by a certified check for $250, payable to the Mayor of the city of Earlington, Ky.

Plans and specifications on file at the office of R. C. Giffin, Civil and Mining Engineer, Madisonville, Ky., and may be inpected there or a copy may be obtained upon deposit of $15, which deposit will be returned upon the return of the plans in good condition.

(Signed) C. B. JOHNSON, M. D.,
Mayor.

OFFICIAL PROPOSALS

Bids: Dec. 11.

Pumping Station Equipment

CONTRACT NO. 5

Monroe, Mich.

Sealed proposals will be received by the City Clerk of Monroe up to 7:30 o'clock p.m., Eastern Standard Time of the 11th day of December, 1922, for the furnishing and installing of the following pumping station equipment in the City Water Works.

One 3 m.g.d. steam pumping engine.
One steam turbine-driven electrical generator.
Two 150 hp. water tube boilers.
Two boiler feed pumps.
One feed water heater.
High pressure steam piping.
Smoke breeching.
One hand-power traveling crane.
One platform scale.
Two 1 m.g.d. motor-driven centrifugal pumps.
One 2 m.g.d. motor-driven centrifugal pump.
One sump pump.
Two coal trucks.
One switchboard.
Painting all machinery and piping.

The specifications under which the work is to be done may be examined at the office of the City Clerk, Monroe, Michigan, or at the office of Hoad, Decker, Shoecraft and Drury, Consulting Engineers, Ann Arbor, Michigan, and copies of the same may be obtained by making a deposit of five dollars, which will be refunded upon their return in good condition or their use in a submitted proposal.

A certified check in an amount of three thousand dollars ($3,000.00) will be required with each proposal.

The right to accept any proposal, to reject any or all proposals, and to waive defects in proposals is reserved by the city.

JAS. H. GILMORE, Mayor.
F. M. KRESSBACH, City Clerk.
HOAD, DECKER, SHOECRAFT AND DRURY,
Consulting Engineers,
Ann Arbor, Michigan.

Bids: Dec. 18.

Refuse Incinerator

Allentown, Pa.

Sealed proposals will be received by the undersigned at his office, Room 301, City Hall until 9:30 o'clock A.M., Monday, December 18, 1922, for the construction of a Refuse Incinerator.

The work to be done consists of the furnishing, installing, and testing ready for operation, on foundations to be constructed by the City of Allentown a refuse incinerator with all appurtenances, of a capacity of 70 tons per 24 hours. The City of Allentown will construct under separate contracts the building, foundations for incinerator and appurtenances and chimney from plans submitted by the successful bidder.

All proposals must be made upon forms provided therefor and accompanied by a certified check for the sum of Five Thousand ($5,000.00) Dollars.

Specification and forms may be obtained at the office of the City Engineer, City Hall, Allentown, Pennsylvania, upon depositing the sum of Fifty ($50.00) Dollars which amount will be returned upon the return of the specifications.

The City of Allentown reserves the right to reject any or all bids.

M. W. GROSS,
Mayor.

H. F. BASCOM,
City Engineer.

OFFICIAL PROPOSALS

Bids: Dec. 6.

Bridge

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Monmouth for the Reconstruction of Grand Avenue Bridge, No. N-14, over Sunset Lake; consisting of three forty foot spans and thirty foot roadway, and opened and read in public at the rooms of said board, Court House, Freehold, New Jersey, on December 6th, 1922, at 11.00 a.m.

Drawings and specifications for the proposed work, prepared by George K. Allen, Jr., County Engineer, have been filed in the office of said Engineer at 60 Broad street, Red Bank, New Jersey, and may be inspected by prospective bidders during business hours. The standard proposal form is attached to the specifications, copies of which will be furnished on application to the Engineer.

Plans and specifications will be furnished to prospective bidders upon payment of ten dollars ($10.00), which amount will be refunded upon return of plans and specifications before the time specified for the opening of bids.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and name of proposed work on the outside, addressed to the Board of Chosen Freeholders of the County of Monmouth and must be accompanied by a certified check for a sum not less than ten (10) per cent of the amount bid on the work, payable to the order of the County Treasurer and a surety company certificate stating that said surety company will provide the bidder with the required bond, and must be delivered at the place and before the hour above named.

The Board of Chosen Freeholders of the County of Monmouth reserves the right to reject any or all bids if deemed to the best interests of the County so to do.

By order of the Board of Chosen Freeholders of the County of Monmouth.

BYRANT B. NEWCOMB, Director.

Attest: CHAS. E. COLE, Clerk.
Freehold, N. J., November 8th, 1922.

Bids: Dec. 11.

Missouri River Bridge

Yankton, S. D.

Bids will be received up to ten o'clock A.M., December 11, 1922, by the Meridian Highway Bridge Company at its office in Yankton, South Dakota, for the furnishing and delivery and for the erection jointly or separately of approximately 3,700 tons of steel for the superstructure of a combined railway and highway bridge over the Missouri River at Yankton, South Dakota. Plans, specifications and bidding forms may be secured from the company's Consulting Engineers, Harrington, Howard and Ash, 1012 Baltimore Avenue, Kansas City, Missouri, upon deposit of $20.00—$10.00 of which will be returned upon the return, in good condition, of the plans and specifications.

Bids: Dec. 5.

Steel Water Tank and Tower

Ponca City, Okla.

Sealed bids will be received at the Office of the City Clerk up to 12 o'clock noon on December 5th, 1922, by the City of Ponca City, Oklahoma, for the furnishing of and the complete erection of one five hundred thousand (500 000) gallon steel water tank and tower. Specifications may be obtained at the office of the City Clerk upon deposit of ten dollars ($10.00). All bids must be accompanied by a certified check in a sum equal to ten per cent (10%) of the amount of the bid, said check to be forfeited to the City of Ponca City in case the successful bidder fails to enter into contract and give good and sufficient bond within ten days from the date of the award to him.

The right is reserved to reject any and all bids.

C. E. NORTON,
City Clerk.

PHILIP R. DUNTON,
Engineer

OFFICIAL PROPOSALS

Bids: Dec 5.

Bridge

Cape May, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Cape May, for the construction of a bridge across Grassy Sound Channel, including Strauss Bascule Draw Span, Cresoted Timber Trestle and Abutments with Graveled Approaches on Sand Fill, on the line of the North Wildwood to Burleigh Road in Middle Township, Cape May County, N. J., and opened and read in public at Cape May Court House, Cape May County, N. J., on Tuesday, December 5th, 1922, at 12 o'clock noon.

Drawings, specifications and forms of bid, contracts and bond for the proposed work, prepared by R. Fendall Smith, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said engineer at Marmora, Cape May County, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings, by the Engineer on proper notice, and a deposit of $25.00, which will be refunded upon the return of the Plans and Specifications in good condition.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of Bridge and road on the outside, addressed to The Board of Chosen Freeholders of the County of Cape May, N. J., and must be accompanied by a Certificate from a Surety Company and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of The Board of Chosen Freeholders, of the County of Cape May, N.J.

IRVING FITCH, Clerk.
Sea Isle City, N. J.

Bids: Dec. 14.

Grading and Bridges

Raleigh, N. C.

Sealed bids for the construction of the following Projects will be received by the North Carolina State Highway Commission at Raleigh, N. C., until 10:00 A.M., on the 14th day of December, 1922, when they will be opened and read:

Grading Project, including drainage pipe, structures, etc.

Project No.	County	Length
201	Carteret	14.14

BRIDGE PROJECTS

138-B	Northampton—	(a) 1 350 ft. steel span with 265 20 ft. timber spans or timber piles, or (b) same on pre-cast R.C. piles, (c) or same as (a) except timber superstructure on I beams, (d) same as (c) except pre-cast concrete piles for substructure.
256	Lenoir—	3 bridges, 2 30 ft. R.C. Thru Girders, 3 30 ft. R.C. Thru Girders, and 4 40 ft. R.C. Thru Girders.

Specifications, proposal forms, etc., may be obtained from the State Highway Commission at Raleigh, N. C.

Plans may be seen in the Raleigh office, or in the offices of the District Engineers.

Bridge plans may be obtained from the State Highway Commission at Raleigh, N. C., upon *payment* of five ($5.00) dollars per set.

The right is reserved to reject any or all bids.

By order of the North Carolina State Highway Commission.

OFFICIAL PROPOSALS

Bids: Jan. 1.

Road Bed, Bridges and Culverts

Kelso, Wash.

Sealed proposals for the construction of roadbed, bridges and culverts for approximately eight and one-half (8½) miles of railroad in Cowlitz County, Washington, will be received by the Longview, Portland & Northern Ry. Company at its offices at Kelso, Washington, up to 2 o'clock P.M., January 1st, 1923, when they will be opened and read, such eight and one-half (8½) miles being regarded by the company as the first unit of contemplated construction expected to total twenty-six (26) miles, contract expected to be let early in 1923.

Drawings, specifications and form of proposal, contract and bond are on file in the office of the Chief Engineer, Kelso, Washington, and may be inspected by prospective bidders; or same will be furnished to interested parties on deposit of Ten Dollars ($10.00), which will be refunded upon return of papers in good condition.

Bids must be made on proposal forms to be furnished by the company and in the manner designated therein, same to be inclosed in sealed envelope bearing the name and address of the bidder and to be marked "Bid for Railroad Construction."

The principal quantities involved are approximately as follows:

153,580 cubic yards common excavation.
39,300 cubic yards loose rock excavation.
59,300 cubic yards solid rock excavation.
222,660 cubic yards embankment borrow.
649,710 station yards overhaul.
924 lin. feet 18 in. concrete culvert pipe.
672 lin. feet 24 in. concrete culvert pipe.
60 lin. feet 30 in. concrete culvert pipe.
380 lin. feet 36 in. concrete culvert pipe.
70 lin. feet 42 in. concrete culvert pipe.
43,860 lin. feet piling.
514,500 ft. B.M. lumber for trestles.

Each proposal must be accompanied by a certified check payable to the Longview, Portland & Northern Ry. Company for not less than five (5) per cent of the total amount of the bid as a guarantee that contract will be entered into if awarded.

The person or persons, if any to whom the contract is awarded will be required to file a bond in a sum not less than 50 per cent of the total amount bid, with good and sufficient sureties, to guarantee the faithful performance of the contract.

Special attention of the bidder is called to "Information for Bidders" included in the proposal forms.

The right is reserved to reject any and all bids.

LONGVIEW-PORTLAND & NORTHERN RY. COMPANY,
By WESLEY VANDERCOOK,
Chief Engineer.

Bids: Dec. 11.

Coagulation Basin

CONTRACT NO. 6

Monroe, Mich.

Sealed proposals will be received by the City Clerk of Monroe, Michigan, up to 7:30 o'clock p.m., Eastern Standard Time, on the 11th day of December, 1922, for the construction of a coagulation basin, consisting of an underground reinforced concrete substructure with a brick superstructure.

The work to be done under Contract No. 6 includes the construction of the basin complete with electric lighting, conduits and water piping, valves and connections.

The plans and specifications under which the work is to be done may be examined at the office of the City Clerk of Monroe, Michigan, or at the office of Hoad, Decker, Shoecraft and Drury, Consulting Civil Engineers, Ann Arbor, Michigan, and copies of the same may be obtained by making a deposit of five dollars, which will be refunded upon their return in good condition.

A certified check for a sum not less than five per cent of the amount of the bid will be required with each proposal.

The right to accept any proposal, to reject any or all proposals, and to waive defects in proposals is reserved by the City.

J. H. GILMORE, Mayor
F. M. KRESSBACH, City Clerk
Hoad, Decker, Shoecraft and Drury,
Consulting Civil Engineers,
Ann Arbor, Michigan.

Why?

WHY do Government regulations specify that contracts for construction, equipment and supplies over a certain minimum amount **must** be advertised?

WHY do the laws of most States and Municipalities specify the same thing?

WHY do so many private corporations advertise **their** big contracts?

WHY do Consulting Engineers, Architects, and others recommend and endorse the advertising of Contracts To Be Let?

And—

WHY are 90% of the advertisements on which **real national competition** is desired published in ENGINEERING NEWS-RECORD?

In the answers to the foregoing questions you will find unquestionable proof that

1—**Advertised Contracts** are the accepted form of public letting to insure the awarding of contracts free of prejudice.

2—**Advertised Contracts** guarantee the greatest possible saving through maximum competition and that—

3—ENGINEERING NEWS-RECORD is universally recognized as the **one** dominant medium of **national** circulation for advertising Contracts To Be Let.

Are your contracts advertised?
Are they advertised in Engineering News-Record?
If not—WHY?

0083

OFFICIAL PROPOSALS

Bids: Dec. 14.

Road Work and Bridges

Richmond, Va.

Bids will be received at the Office of the Virginia State Highway Commission, corner 10th and Marshall Streets, Richmond, Va., until 12 o'clock noon, Thursday, December 14th, 1922, for the construction of:

1.—PROJECT F-169B, Route 3, (a) Blue Ridge Church to Tinkers Creek, in Botetourt County. 9.95 miles of 18 ft. x 8 in. bituminous macadam road, involving approximately 23,677 cu.yds. unclassified excavation; 53,557 cu.yds. borrow excavation; 9,519 cu.yds. channel change; 930 lin.ft. cast iron pipe; 300 lin.ft. vitrified clay pipe; 171 cu.yds. Class "A" concrete; 660 cu.yds. Class "B" concrete; 2,550 lin.ft. wooden guard rail; 230 lin.ft. wooden guard rail with steel posts. Alternate bids are requested using 6 in.-8 in.-6 in. x 18 ft. one course concrete pave ient.

(b) 7 bridges over streams on the road between Blue Ridge Church and Tinkers Creek, having a total length of 381 ft., involving approximately 417 cu.yds. Class "A" concrete; 1,213 cu.yds. Class "B" concrete; 75,170 lbs. of reinforcing steel; 1,320 lin.ft. piles.

2.—PROJECT F-186A, Route 12, from Sandy River, west, in Pittsylvania County, approximately 6.28 miles of 6 in.-8 in.-6 in. x 18 ft. concrete pavement, involving approximately 3 acres clearing and grubbing, 27,965 cu.yds. excavation; 646 lin.ft. cast iron pipe; 378 lin.ft. vitrified clay pipe encased in concrete; 39 cu.yds. Class "B" concrete; 850 lin.ft. wooden guard rail.

3.—PROJECT S-205, Route 1, (a) Fredericksburg to Spotsylvania Court House in Spotsylvania County. 9.91 miles of 6 in.-8 in.-6 in. x 18 ft. concrete roadway, involving approximately 16 acres clearing and grubbing; 54,760 cu.yds. unclassified excavation; 1,100 lin.ft. cast iron pipe; 430 lin.ft. vitrified clay pipe, encased in concrete; 58 cu.yds. Class "A" concrete; 65 cu.yds. Class "B" concrete; 3,739 lbs. reinforcing steel, 2,310 lin.ft. wooden guard rail; 72 lin.ft. wooden guard rail, with steel posts.

(b)—Two bridges, near Fredericksburg, having a total length of 76 ft.-10 in., involving approximately 102 cu.yds. Class "A" concrete; 374 cu.yds. of Class "B" concrete, 1,540 lbs. reinforcing steel.

4.—PROJECT S-215, Route 13, (A) bridge over Appomattox River, in Prince Edward County. Length: 292 ft. 10 in. roadway 19 ft., involving approximately 282 cu.yds. Class "A" concrete, 474 cu.yds. cement rubble masonry, 41,700 lbs. reinforcing steel, 112,000 lbs. structural steel, 1,000 lin.ft. piles.

(b) APPROACHES, to the bridge involving approximately 33,178 cu.yds. borrow excavation, 3,614.4 sq.yds. of 7 in. x 18 ft. concrete roadway, 2,256 lin.ft. wooden guard rail.

A certified check or bidder's bond must accompany each bid amount of certified checks, as follows:

Proj. S-169B—(a) road—$5,000.00; (b) bridge—$2,000.00. Proj. F-186A—$5,000.00. Proj. S205 (a) road—$5,000.00; (b)—bridge—$500.00. Proj. S215 (a) bridge—$1,500.00; (b) approaches $1,000.00. Amount of bidder's bond 20 per cent in excess of certified check.

Plans and specifications are on file at the office of the Virginia State Highway Commission, corner 10th and Marshall Streets, Richmond, and at the offices of the following District Engineers:

Proj. F-169B, and bridges, at Roanoke, Va.; Proj. F-186A at Lynchburg, Va. Proj. S-205, and bridges B and C, at Fredericksburg, Va.; Proj. S-215, A and B, at Richmond, Va.

Additional plans for bidders for the above projects can be obtained upon application to the State Highway Commissioner, upon receipt of five dollars ($5.00) payable to the Assistant Commissioner, $2.50 of which will be refunded when plans are returned in good condition within two weeks after bids are opened. Plans for the bridges can be secured from W. F. Hobart, 805½ E. Franklin Street, Richmond, Va., upon payments as follows:

Proj. S-169AB-Bridges—$4.15 for all seven. Proj. S-205 b and c 54c. each. Proj. S-215, a and b, $1.98.

Specifications and bidding proposals may be obtained by request from the office of the State Highway Commissioner.

Engineers will be at the following places to show prospective bidders over the Projects:

Project F-169B and bridges, at Office of District Engineer, Roanoke, Va., Tuesday, 10:00 A.M., November 28th.

Project F-186-A, at the Burton Hotel, Danville, Va., 10:00 A.M., Tuesday, December 5th.

Project S-205, and bridges, at Office of District Engineer, Fredericksburg, Va., 10:00 A.M., Thursday, December 7th.

Project S-215, a and b, at Prince Edward Hotel, Farmville, at 10:00 A.M., Tuesday, December 12th.

The State Highway Commission reserves the right to reject any or all bids.

STATE HIGHWAY COMMISSION.
H. G. SHIRLEY, Chairman.
G. P. COLEMAN, Commissioner.

Bids: Dec. 12.

State Hospital Work

Central Islip, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work—Kitchen and Dining Room Building and Connecting Corridor, at the Central Islip State Hospital, Central Islip, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until three o'clock P.M. on Tuesday December 12, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of proposals. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract, and in accordance with the terms of Specifications Nos. 3965, 3966, 3967 and 3968. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Central Islip State Hospital, Central Islip, N. Y., at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

L. M. FARRINGTON,
Secretary, State Hospital Commission.
Dated: November 23, 1922.

Bids: Dec. 12.

Engines and Boilers

Wheeling, W. Va.

Sealed proposals for the design, construction, erection, putting in operation and testing of two (2) engine driven centrifugal low service pumping engines; one turbine driven centrifugal high service pumping engine, three (3) 350 hp. boilers with stokers and the dismantling, moving and re-erecting of the existing Allis-Chalmers pumping engine will be received by the city of Wheeling, W. Va., until 12 o'clock noon, Eastern Standard Time, on the 12th day of December, 1922, and will then be opened and read publicly.

Official proposal blanks, instructions to bidders, specifications, form of contract and bond may be seen at the office of the City Clerk, Wheeling, W. Va., or two (2) copies of each may be obtained by bona fide bidders upon application to The J. N. Chester Engineers, Pittsburgh, Pa., or to the city of Wheeling, W. Va., upon deposit of twenty-five dollars ($25.00), which amount will be refunded to bidders on receipt of a bona fide bid or upon the return of both copies in good order.

The right is reserved to reject any or all bids.

C. H. DOWLER,
City Manager.

Attest:
W. M. EVANS,
City Clerk.

A Representative Reports—

"It was my privilege to meet the Road Commissioners of Kalamazoo County (Mich.) in session and they wished me to convey to your staff their appreciation of the excellent results obtained through publishing proposals in *Engineering News-Record*."

OFFICIAL PROPOSALS

Bids: Dec. 27.

Dock Wall

TERMINAL CONTRACT NO. 53-B.

Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Wednesday, December 27th, 1922, at which place and hour they will be publicly opened and read, for the construction of barge canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and amendatory laws, and Chapter 402 of the Laws of 1920, as follows:

TERMINAL CONTRACT NO. 53-B.

For constructing certain portions of the dock-wall at Ohio Basin, Buffalo.

Contract plans, sheets 1 to 3, inclusive.

Plans may be seen and detailed specifications, engineers' estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works, at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., at the offices of the Superintendent of Public Works, Erie Basin Terminal, Buffalo, N. Y., and Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of fifteen cents (15c) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

CHARLES L. CADLE,
Superintendent of Public Works.
November 23rd, 1922.

OFFICIAL PROPOSALS

Bids: Dec. 19.

Bridges and Road Work

Charleston, W. Va.

Sealed proposals will be received by the State Road Commission of West Virginia at its office in Charleston, West Virginia, until 10 o'clock a.m. on the 19th day of December, 1922, and said proposals will be opened and read immediately thereafter at the Kanawha County Court House, Charleston, W. Va., for the construction of the following bridges and sections of State Road:

Project 3045, Monroe County—5 miles of the Union-Rock Camp road for grading and draining. Certified check for $3,000.

Project 3047-B, Nicholas County—6 miles of the Gilboa-Drennen Road for grading and draining. Certified check for $3,500.

Project 3182-A, Pocahontas County—6 miles of the Sunset-Frost Road for grading and draining. Certified check for $3,000.

Project 3102, Raleigh County—6 miles of the Shady Springs-Summers County Line Road for grading and draining Certified check for $3,000.

Project 3059, Five Block Bridge No. 856, Logan County over Spruce Fork—130-ft. steel through truss superstructure, concrete or Ashlar masonry substructure. Separate proposal will be received for substructure. Certified check $500, and superstructure certified check for $500.

Project 3188, Wayne County—5.5 miles of the Marrowbone-Crum Road for grading and draining. Certified check for $4,000.

Project 3061, Echo Bridge No. 811, Wayne County, over Twelve Pole Creek—120-ft. steel through truss superstructure, concrete or Ashlar masonry substructure. Separate proposals will be received for substructure. Certified check $500 and superstructure certified check $500.

Project 3078-A, Pleasants County—3 miles of the River Road, St. Marys to Belmont, for grading, draining and gravel surfacing. Certified check for $2,000.

Project 3082, Wetzel County—3 miles of the River Road, New Martinsville, north, for grading, draining and gravel surfacing. Certified check for $1,200.

Project 3157, Braxton County—8.3 miles of the Gassaway-Frametown Road for grading and draining. Certified check for $7,500.

Project 3160, Doddridge County—8.2 miles of the Northwestern Turnpike, West Union-Ritchie County Line, for grading and draining. Certified check for $4,000.

Project 3170-B, Clay County—3 miles of the Dull Creek-King Shoals Road for grading and draining. Certified check for $1,500.

Project 3026, Jefferson County—7 miles of the Charlestown-Kearneysville Road for grading, draining, and waterbound macadam surface course. Certified check for $5,000.

Project 122-A, Mineral County—8 miles of the Claysville to Grant County Line Road for grading and draining. Certified check for $3,500.

Project 3014, Pendleton County—7 miles of the Petersburg-Franklin Road for grading and draining. Certified check for $3,000.

Project 3033, Randolph County—12 miles of the Valle Head-Webster County Line Road for grading and draining. Certified check for $7,500.

Proposals will be received only upon State standard forms in accordance with plans, specifications and estimates of quantities therefor, which standard forms, plans, specifications and estimates may be obtained from the office of the Division Engineer in whose territory the proposed construction is located, or from the office of the State Road Commission at Charleston, W. Va.

Each proposal must be accompanied by a certified check for the amount noted.

The right is reserved to reject any and all proposals.

THE STATE ROAD COMMISSION,
OF WEST VIRGINIA.
E. B. CARSKADON, Secretary.

OFFICIAL PROPOSALS

Bids: Dec. 6.

Road Machinery

Springfield, Ill.

Sealed proposals for the following machinery for the Division of Highways will be received by the undersigned until ten o'clock A.M., December 6, 1922.

Twenty-seven Portable Heating Kettles.
Thirty-two Graders.
Forty-four Road Drags.

Full information will be furnished upon application to the undersigned.

The right is reserved to reject any and all bids.

DEPARTMENT OF PUBLIC WORKS AND BUILDINGS.
C. R. MILLER, Director.
DIVISION OF PURCHASES AND SUPPLIES.
H. H. KOHN, Superintendent.
November 22, 1922.

South Nyack, New York Saved $2,642.20

Through advertising for bids on a paving contract in *Engineering News-Record*.

This publicity in these Official Proposal Columns is a mighty profitable investment for any community.

It Costs so little, too.

Bids: Dec. 12.

Motor Driven Water Works Pumps

Wheeling, W. Va.

Sealed proposals for the design, construction, erection and putting in operation of three (3) low service and three (3) high service motor driven, centrifugal pumping engines in units of 10, 15 and 20 million gallons, will be received by the city of Wheeling, W. Va., until 12 o'clock noon, Eastern Standard Time, on the 12th day of December, 1922, and will then be opened and read publicly.

Official proposal blanks, instructions to bidders, specifications, form of contract and bond may be seen at the office of the City Clerk, Wheeling, W. Va., or two (2) copies of each may be obtained by bona fide bidders upon application to The J. N. Chester Engineers, Pittsburgh, Pa., or to the city of Wheeling, W. Va., upon deposit of twenty-five dollars ($25.00), which amount will be refunded to bidders on receipt of a bona fide bid or upon the return of both copies in good order.

The right is reserved to reject any or all bids.

C. H. DOWLER,
City Manager.

Attest:
W. M. EVANS,
City Clerk.

¶If one of your employees deliberately put off looking thoroughly into a machine or method for which was claimed a marked improvement over present operations, he'd "get the air." ¶If you have continually put off learning why Swart Contract Bond Service is better, what penalty do you recommend for your own neglect?
SWART 92 William St. New York

OFFICIAL PROPOSALS

Bids: Jan. 5 (Date of closing extended).

Reservoir Dam

Bluefield, W. Va.

Sealed proposals or bids for the construction of a clay or earthen dam, containing about 40,000 cubic yards of material, to be sluiced into place, will be received at the office of the BLUEFIELD WATER WORKS & IMPROVEMENT COMPANY, at Bluefield, West Virginia, until three o'clock P.M., on the 5th day of January, 1923, when they will be publicly opened and read. All proposals shall be enclosed in an envelope furnished by the above styled company and shall be accompanied by a certified check on some national bank, in the sum of five (5%) per cent of the amount of the proposed bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of thirty five (35%) per cent of the amount of the contract, within thirty days after official notice of the award of contract and in accordance with the terms of the specifications. The right is reserved to reject any or all bids. Drawings, specifications and blank forms of proposals may be consulted at the office of company, 601 Princeton Avenue, Bluefield, West Virginia, or they will be forwarded by mail upon request if $4.00 accompanies the order. This amount will be refunded upon return of the plans and specifications in reasonably good order.

BLUEFIELD WATER WORKS & IMPROVEMENT COMPANY.
WM. McCARTHY,
Superintendent.
November 23rd, 1922.

Bids: Dec. 19.

Highway Work

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock P.M., on Tuesday, December 19, 1922, for the improvement of highways in the following counties:

Albany	(one highway: 0.23)
Cattaraugus	(one highway: 0.13)
Monroe	(one highway: 0.12)
Ontario	(one highway: 0.41)
Otsego	(one highway: 0.48)
Steuben	(one highway: 4.24)
Suffold	(two highways: Gravity Concrete Retaining Wall)

Also for the reconstruction of the following:

Montgomery	(two contracts: 1.50 & 2.50)
Niagara	(one contract: 5.13)
Steuben	(one contract: 3.00)
Suffolk	(one contract: 4.50)
Tioga	(one contract: 3.13)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the roads are to be improved or reconstructed. The addresses of the Division Engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

HERBERT S. SISSON,
Commissioner.
State Commission of Highways.
J. C. FINCH,
Secretary.

Bids: Dec. 29.

Garbage Incinerator

Portland, Ore.

Sealed proposals will be received at the office of the Purchasing Agent of the City of Portland, Oregon, until 2.00 o'clock P.M., Friday, December 29, 1922, for the construction of a garbage incinerator according to specifications on file.

A certified check for 10 per cent of the amount must accompany each bid.

Specifications and additional information may be obtained from

O. LAURGAARD,
City Engineer.

CONTRACT BONDS FOR RESPONSIBLE CONTRACTORS

When you require a contract bond, insist that the Ætna write it and you will be well and promptly served.

ÆTNA CASUALTY AND SURETY COMPANY
HARTFORD, CONN. AGENTS EVERYWHERE

OFFICIAL PROPOSALS

Bids: Dec. 14.

Wharf Reconstruction

New Orleans, La.

Sealed proposals will be received by the Board of Commissioners of the Port of New Orleans, at their office, Suite 200, New Orleans Court Building, until December 14th at 3:00 P.M., and then publicly opened for reconstruction of wharf and ratproofing at Robin Street Landing.

A deposit of $4,000.00 in cash or certified check is required with each proposal.

A bond to the amount of 50% of the sum bid is required with notarial contract.

Specifications and proposal form are on file in the office of the Supervisor of Purchases at 1 Canal Street, New Orleans, Louisiana. Complete sets will be furnished to prospective bidders on deposit of $10.00, which will be refunded to depositors who submit proposals or return sets in good condition.

The right is reserved to reject any or all bids and to waive informalities.

J. H. WALSH, General Manager

Bids: Dec. 28.

Resurfacing Streets

Mobile, Ala.

Bids will be received by the Board of City Commissioners of the City of Mobile for resurfacing with either Asphalt, Warrenite Bitulithic Asphaltic Concrete, Type No. 1, and Asphaltic Concrete, Type No. 2, until noon, December 28th, 1922, 45,868 square yards of one and half inch surface, 45,868 square yards of one and half inch binder.

Plans and specifications can be had at the office of the City Engineer. The right is reserved to reject any or all bids.

R. V. TAYLOR, Mayor.
WRIGHT SMITH, City Engineer.

Bids: Dec. 11.

Labor-Material Percentage Contract

New Orleans, La.

Sealed proposals will be received at the Sewerage and Water Board, Room 401, No. 526 Carondelet Street, New Orleans, La., up to 12 o'clock noon of Monday, December 11th, 1922, on Labor-Material Percentage Contract for year 1923.

Specifications and blank forms of proposal may be obtained at the office of the Board.

The right is reserved to reject any or all bids.

October 12th, 1922.

A. G. MOFFAT, Secretary.

GEO. G. EARL, General Superintendent.

U. S. GOVERNMENT

OFFICE OF CONSTRUCTING QUARTERMASTER, WILLIAM BEAUMONT GENERAL HOSPITAL, EL PASO, TEXAS. Sealed proposals in triplicate will be received at this office until 10:00 A.M., December 20th, 1922, then publicly opened for constructing complete, including utilities, two (2) Field Officers' Quarters; one (1) Bachelor Officers' Quarters, and one (1) Guard House at William Beaumont General Hospital, El Paso, Texas. Plans and specifications furnished upon receipt of certified check for $20.00 to guarantee return.

COMMISSIONERS, D. C., Washington, November 28, 1922. Sealed proposals for furnishing and installing electric light fixtures at the new Eastern High School will be received in Room 509, District Building, until 2 o'clock p.m., December 14, 1922. Detailed information at Room 427, District Building. Deposit of $10 required to insure return of plans and specifications. Cono H. Rudolph, James F. Oyster, Charles Keller, Commissioners, D. C.

SEALED PROPOSALS will be opened by the Supt. of Lighthouses, Philadelphia, Pa., 2 p.m., Dec. 21, 1922, for building stone and reinforced concrete breakwater at Harbor of Refuge Light Station, Delaware Bay, Del. Information on application.

U. S. GOVERNMENT

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened for the construction (exclusive of mechanical equipment) of 29 reinforced concrete buildings of the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $250, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened for electrical work in connection with 29 buildings at U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $250, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened, for plumbing, heating and ventilating work in connection with 29 buildings of the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthem O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $250, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened, for refrigerating machinery in the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $50, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11 o'clock a.m., December 18, 1922, and then and there publicly opened for laundry equipment in the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post Street, San Francisco, California. Deposit of a certified check or postal money order for $50, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

SEALED PROPOSALS will be received by the Director, U. S. Veterans' Bureau, Arlington Building, Washington, D. C., until 11o'clock a.m., December 18, 1922, and then and there publicly opened, for kitchen equipment in the U. S. Veterans' Hospital at Livermore, California. Drawings and specifications may be obtained upon application to the office of Matthew O'Brien, Architect, No. 68 Post St., San Francisco, California. Deposit of a certified check or postal money order for $50, payable to Matthew O'Brien, is required as security for the safe return of the drawings and specifications. C. R. Forbes, Director, U. S. Veterans' Bureau, November 18, 1922.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, HUNTINGTON, W. VA., November 15, 1922. Sealed proposals will be received here until 11 a.m. (Eastern Time), December 15, 1922, and then opened, for furnishing and delivering steel hull maneuver boat, etc., for Dam No. 30, Ohio River. Further information on application.

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals will be received here until 12 noon (Eastern Time), December 20, 1922, and then opened for furnishing and delivering steel lock gates for Lock No. 1, Allegheny River. Further information on application.

U. S. ENGINEER OFFICE, WILMINGTON, DEL. Sealed proposals will be received here until 11 a.m., December 20, 1922, and then opened for excavating cutoffs in St. Jones and Mispillion Rivers, Del. Further information on application.

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals for constructing and delivering one steel dipper dredge hull afloat at Pittsburgh, Pa., will be received at this office until 12 noon (Eastern time), December 1, 1922, and then opened. Information on application.

U. S. ENGINEER OFFICE, ROCK ISLAND, ILL., Nov. 10, 1922. Sealed proposals will be received here until 10 a.m., December 11, 1922, and then opened, for construction and delivery of ten (10) 100 ft. x 30 ft. x 6 ft. steel barges, complete as specified. Further information on application.

SEALED PROPOSALS will be received and publicly opened by the Director of the U. S. Veterans Bureau in the office of the Quartermaster General, 2306 Munitions Building, Washington, D. C., at 11 a.m., December 12, 1922, for the construction of a Neuro-Psychiatric Hospital at Knoxville, Iowa for the Veterans Bureau. Work will include the construction of fifteen buildings of reinforced concrete and brick, complete with water, lighting, heating, and sewer systems, roads and walks. Plans and specifications may be obtained after November 14, 1922 from the Quartermaster General, 2312 Munition Building, Washington, D. C., upon deposit of $100. One set of plans and specifications will be on exhibition at each of the following stations: Constructing Quartermasters at 30 Whitehall Street, New York City and Scott Field, Belleville, Illinois; also Quartermaster Supply Officers at 1819 West Pershing Road, Chicago, Illinois and Second and Arsenal Streets, St. Louis, Mo.

PROPOSALS FOR NINE STEEL BARGES.—Office Mississippi River Commission, Third District, P. O. Box 404, Vicksburg, Miss. Sealed proposals will be received here until 11 a.m. December 14, 1922, and then opened, for furnishing nine steel barges. Further information on application.

UNITED STATES ENGINEER OFFICE, DETRIOT, MICH.—Sealed proposals will be received here until 11 a.m., December 15, 1922, and then opened, for dredging and rock excavation in Livingstone Channel, Detroit River, Mich. Further information on application.

U. S. ENGINEER OFFICE, WILMINGTON, N. C., Nov. 25, 1922. Sealed proposals will be received here until 12 M., December 26, 1922, and then opened for constructing one 60-foot by 22-foot by 4-foot steel barge. Further information on application.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C. Nov. 20, 1922. Sealed proposals will be received at this office until 3 p.m., Dec. 14, 1922, and then opened, for fly screens for the United States Post Office, Santa Fe, N. M. in accordance with the specification, copies of which may he had at this office or at the office of the Custodian, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

SEARCHLIGHT SECTION

EMPLOYMENT—BUSINESS OPPORTUNITIES

Positions Wanted, 4 cents a word, minimum charge 75 cents an insertion.
Positions Vacant and all other classifications, 8 cents a word, minimum $2.

Box Numbers in care of any of our offices count as 10 words in addition to advertising copy.

Replies are forwarded each day as received at all of our offices without additional charge.

Discount of 10% is allowed if one payment is made in advance for 4 consecutive insertions.

THE ABOVE RATES ARE FOR ADVERTISEMENTS SET UNDISPLAYED. FOR DISPLAY RATES SEE "EQUIPMENT" HEADING.

E. N. R.

POSITIONS VACANT

COMPETENT general foremen, master rigger, carpenter foremen, master mechanics and assistant superintendents wanted for heavy hydro-electric construction work. Applicants should give reference and state minimum salary requirements. P-278, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

DRAFTSMAN, experienced, wanted for structural steel buildings; apply by mail only, giving age, nationality, education, experience and salary expected. Post & McCord, 101 Park Ave., New York.

DRAFTSMAN experienced in reinforced concrete and structural steel design. Permanent position for right man. Application must include full qualifications. P-296, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

DRAFTSMEN, detailers and checkers, on shop detailing for structural steel. Morava Construction Co., 85th and Stewart Avenue, Chicago, Ill.

DRAFTSMEN wanted with structural steel and general engineering experience. Location eastern Pennsylvania. State age, education, experience, references and salary desired. P-274, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

DRAFTSMAN and general clerical worker wanted. Young man about 21, for ornamental iron works, New York District. P-321, Eng. News-Record, 10th Ave. at 36th St., New York City.

DRAFTSMAN wanted on municipal work in North Carolina. Give age, education, experience, salary and sample of work. P-316, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

POSITIONS VACANT

ELECTRICAL instrument repairman wanted for the Panama Canal. $189.28 a month. Must have had at least two years experience in testing, repairing, calibrating, and installing voltmeters, ammeters, wattmeters and watthour meters of all kinds and makes. Must be American citizen, final papers, under 45 years, in good health. Free steamship transportation from New York or New Orleans, wages beginning date of sailing. Write "Chief of Office, The Panama Canal, Washington, D. C."

ENGINEER and draftsman wanted in foundry located western New Jersey; general work in drawing room. P-318, Eng. News-Record, 10th Ave. at 36th St., New York City.

ENGINEER wanted, mechanical and electrical, as assistant to the superintendent of a portland cement plant in the East; must be good, competent, trustworthy young man, with practical experience (cement not necessary); excellent chance for advancement if you can make good. State age, nationality, experience and wages expected. P-319, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

Construction Men

Learn "Line" and "Grade" by Actual Practice.

Level, Transit, and Plane Table Work.
"Running" of Farm, Stadia, Highway and Railroad Surveys.

Estimating

Day and evening courses. Booklet.

The Pan-American Engineering School
39 West 17th St., New York City

POSITIONS VACANT

FIELD men wanted in Eastern States for the education and promotional work in connection with a well known basic building material. Sales experience desirable. Practical familiarity with building construction and engineering necessary with a knowledge of masonry, plaster, and concrete work and practice. Technical training desirable. Permanent positions with good prospects. Write full details. 808 Colorado Building, Washington, D. C.

SALES engineer wanted, experienced in structural and concrete design, to cover one or two Southern states marketing products manufactured by one of the largest concerns in our line; proposition attractive for the right man. Send history, past experience, age and photograph to the Southern General Fireproofing Co., Atlanta, Ga.

SEVERAL structural steel draftsmen wanted for bridge and building work. State experience, age, salary wanted and when can report. Working conditions good. The Ingalls Iron Works Company, Birmingham, Alabama.

SEVERAL first class structural draftsmen to make and check shop drawings. None but competent and experienced men are desired. Reply giving full information, Whitehead & Kales Company, Detroit, Mich.

WANTED structural engineers thoroughly experienced in structural steel designing for factory building; location architect's office, Detroit. State experience in full detail and salary desired. P-113, Eng. News-Record, Leader-News Bldg., Cleveland, Ohio.

WANTED for large construction job in Province of Quebec, cost acountant with engineering education. Must be prepared to reside close to work. Apply giving experience and salary expected to P. O. Box 2670, Montreal, Canada.

PUMPS

Wanted:—Six ambitious young men for salesman's training course. Must have vision enough to take full advantage of an intensive shop and office training and capable of development into high grade representatives. Engineering degrees required. Also one man of similar qualifications who wishes to specialize in foundry work. Write—

The Goulds Manufacturing Company
Seneca Falls, N. Y.
Attention S. S. Gould, Jr., Vice-Pres.

GOULDS

HIGHER ENGINEERING
(BY MAIL)

Intensive Training for Young Engineers

Reinforced Concrete Engineering
Steel Designing, (Estimating)
Bridges, Steel and Concrete.

Wilson Courses provide the practice that every young engineer so badly needs after he leaves college. They duplicate actual designing just as it is done in first-class structural designing offices. They are actual experience work, meant to round out your education. Only high-grade men are enrolled for this work.

Get our free literature, if you are ambitious, and want that ideal course.

WILSON ENGINEERING CORPORATION
10 Broadway, Hanover, Mass.